

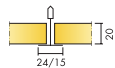
# Ecophon Focus™ A

Ecophon Focus™ A has an exposed grid system with easily demountable tiles. For applications where a robust suspended ceiling system is required. Improves absorption in the low frequency range, Ecophon Extra Bass can be installed on top of the suspended ceiling.

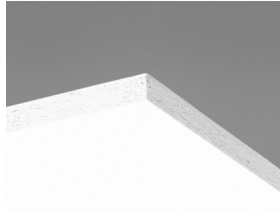


DSB Werkbedrijf, Nijmegen, Netherlands

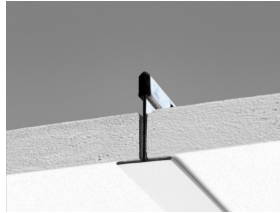
## SYSTEM RANGE



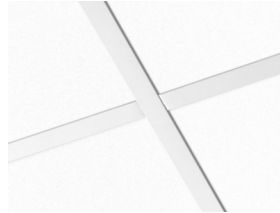
Size, mm	600x600	1200x600	1200x1200	XL 1600x600	XL 1800x600	XL 2000x600	XL 2400x600
Connect T15	•	•	•				
Connect T24	•	•	•	•	•	•	•
T24	•	•	•				
Thickness	20	20	20	20	20	20	20
Inst. Diagr.	M01, M399	M01, M399	M01	M16, M46	M16, M46	M16, M46	M16, M46



Focus A tile



Section of Focus A system with Connect T24



Focus A system

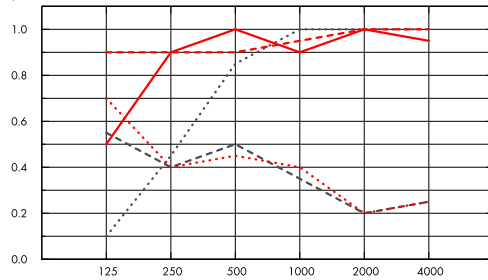


## Acoustic

### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

$\alpha_p$ , Practical sound absorption coefficient



.... Focus A 20 mm, 50 mm o.d.s.  
 — Focus A 20 mm, 200 mm o.d.s.  
 --- Focus A 20 mm + Extra Bass 50 mm, 200 mm o.d.s.  
 ... Focus A gamma 20 mm, 200 mm o.d.s.  
 --- Focus A gamma 20 mm + Extra Bass 50 mm, 200 mm o.d.s.  
 o.d.s = overall depth of system

	THK mm	o.d.s. mm	$\alpha_p$ , Practical sound absorption coefficient						$\alpha_w$	Sound absorption class
			125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
-	20	50	0.10	0.45	0.85	1.00	1.00	1.00	0.75	C
-	20	200	0.50	0.90	1.00	0.90	1.00	0.95	1.00	A
+ Extra Bass,	70	200	0.90	0.90	0.90	0.95	1.00	1.00	0.95	A
gamma	20	200	0.55	0.40	0.50	0.35	0.20	0.25	0.30	D
gamma + Extra Bass	70	200	0.70	0.40	0.45	0.40	0.20	0.25	0.30	D

	THK mm	o.d.s. mm	NRC	SAA
-	20	50	0.85	0.83
-	20	200	0.95	0.93
+ Extra Bass,	70	200	0.95	0.93
gamma	20	200	0.35	0.36
gamma + Extra Bass	70	200	0.35	0.37
-	20	400	0.85	0.88

THK mm	AC(1.5) Articulation Class, ASTM E1111, ASTM E1110	$D_{nfw}$ Weighted normalized flanking level difference, ISO 10848-2	CAC dB Ceiling Attenuation Class, ASTM 1414, ASTM E413
20	190	19	21



## Indoor Air Quality

### Certificate / Label

Eurofins Indoor Air Comfort®

IAC Gold

French VOC

A+



## Cradle to Cradle Certified®



This product is Cradle to Cradle Certified® at Bronze level (version 4.0).



## Material Health

This product has received a C2C Certified Material Health Certificate™ at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate™ is a verification of the health and safety of a product's composition using the Material Health requirements of the Cradle-to-Cradle Certified Product Standard.



## Carbon footprint

kg CO<sub>2</sub> equiv/m<sup>2</sup>

Focus A

2,60

Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804



## Circularity

Minimum post-consumer recycled content

51%

Recyclability

Fully recyclable



## Fire safety

Country

Fire standard

Class

Europe

EN 13501-1

A2-s1,d0

The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.



## Humidity Resistance

Class C, relative humidity 95% and 30°C, according to EN 13964:2014



## Visual appearance

White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.



## Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



## Accessibility

The tiles are easily demountable. Minimum demounting depth according to installation diagrams.



## Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.



## System weight

	kg/m <sup>2</sup>
Focus A	1,4
Focus A + Connect grid system	2,4
Focus A/Gamma	1,8
Focus A/Gamma + Connect grid system	2,8

Weight information is indicative and subject to variation.



## Mechanical properties

See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at [www.ecophon.com](http://www.ecophon.com).

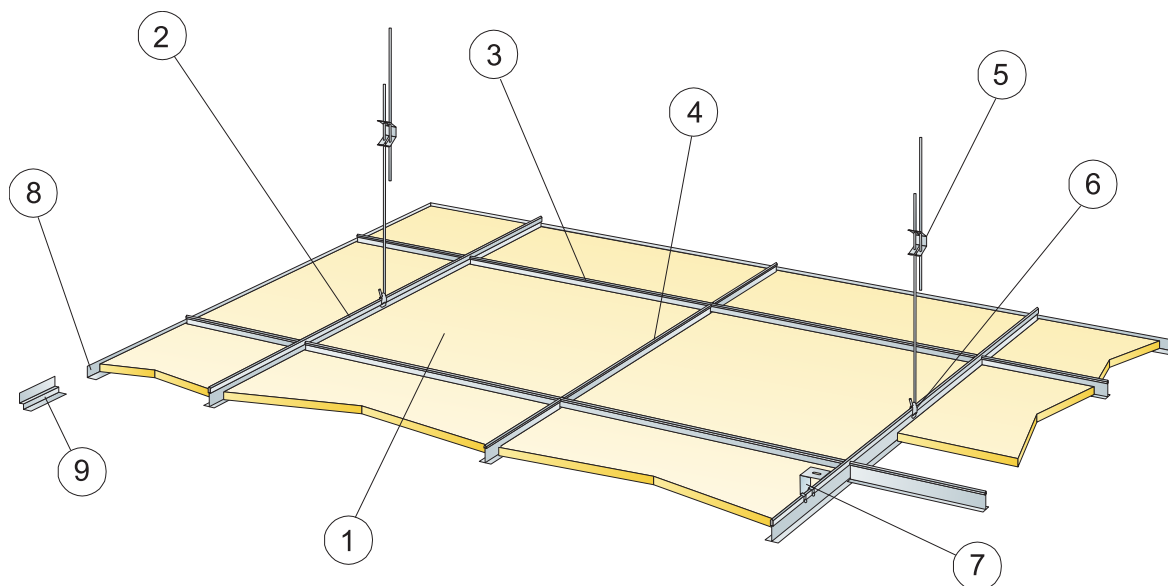


## CE

Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.



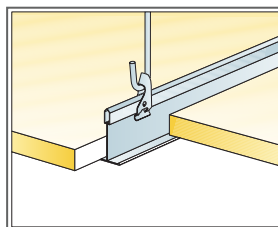
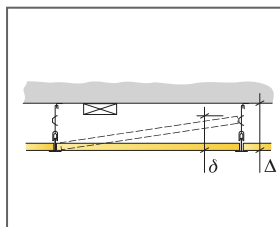
## INSTALLATION DIAGRAM (M01) FOR ECOPHON FOCUS A



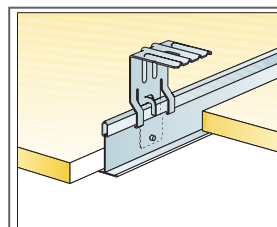
© Ecophon Group

## QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm		
	600x600	1200x600	1200x1200
1 Focus A	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>	0,7/m <sup>2</sup>
2 Connect T24 or T15 Main runner, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall).	0,9m/m <sup>2</sup>	0,9m/m <sup>2</sup>	0,9m/m <sup>2</sup>
3 Connect T24 or T15 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>	0,9m/m <sup>2</sup>
4 Connect T24 or T15 Cross tee, L=600 mm	0,9m/m <sup>2</sup>	-	-
5 Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
6 Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
7 For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
8 Connect Angle trim, fixed at 300 mm centres	as required	as required	as required
9 Connect Shadow-line trim, fixed at 300 mm centres	as required	as required	as required
Δ Min. overall depth of system, with adjustable hanger: 100 mm, with direct bracket: 50 mm	-	-	-
δ Min. demounting depth: 120 mm (130 mm with 1200x1200)	-	-	-
For luminaire integration in panels use Connect Bridging	-	-	-
When using panels in format 1200x1200 mm and XL-format in combination with T15 grid, secure grid with wall brackets	-	-	-



Suspension with adjustable hanger and clip

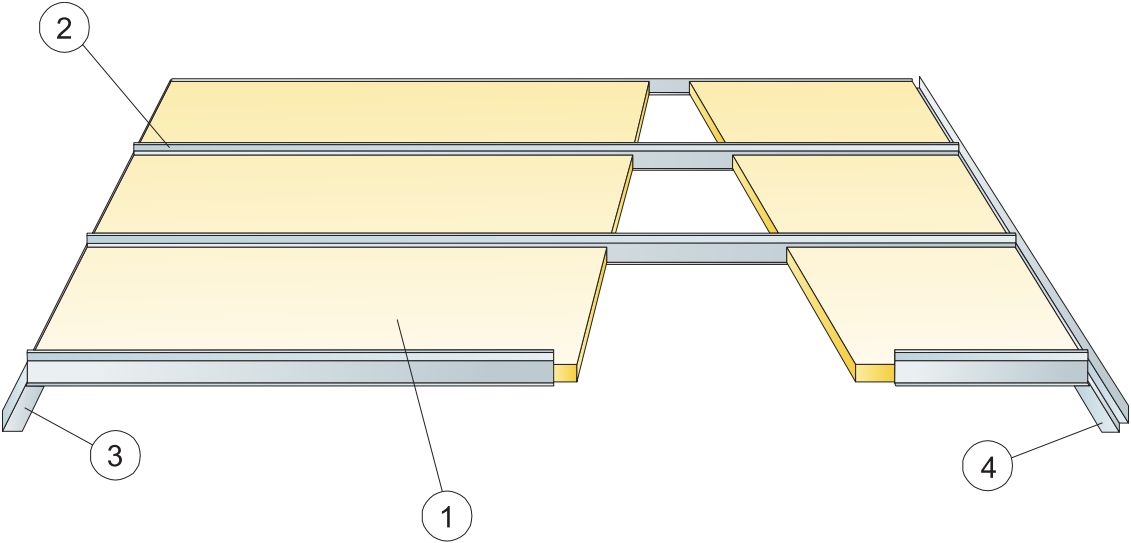


Suspension with direct bracket

Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x20	50	160
1200x600x20	50	160
1200x1200x20	50	160

Live load/load bearing capacity

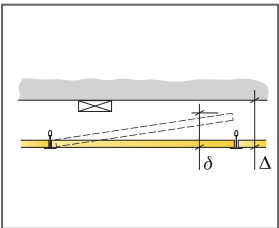
INSTALLATION DIAGRAM (M16) FOR ECOPHON FOCUS A XL IN CORRIDORS



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QUANTITY SPECIFICATION (EXCL. WASTAGE)

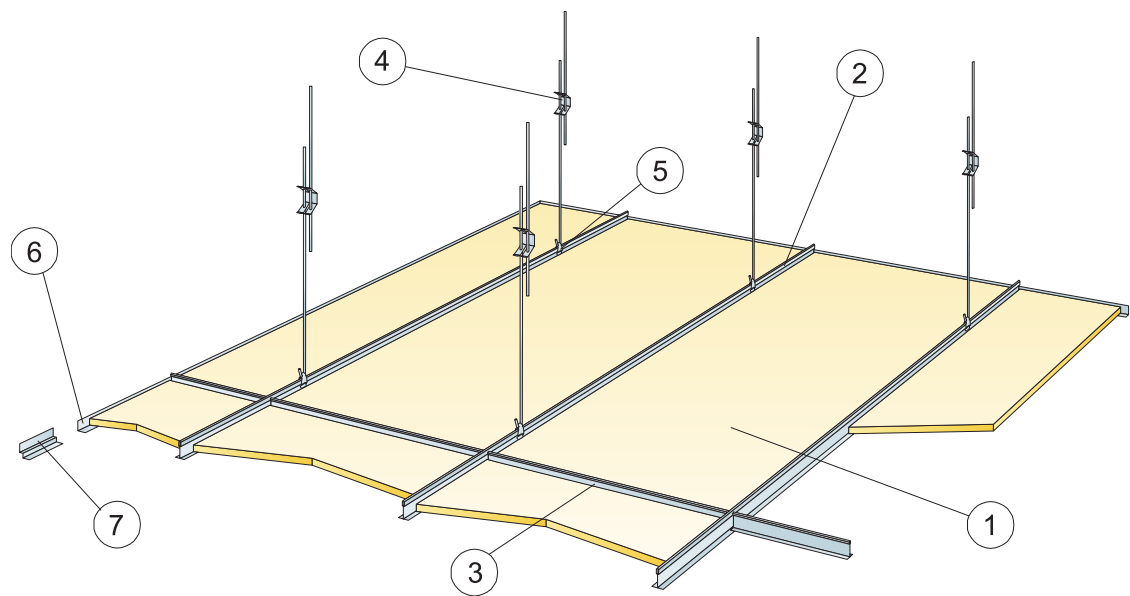
	Size, mm			
	1600x600	1800x600	2000x600	2400x600
1 Focus A XL	1,05/m <sup>2</sup>	0,95/m <sup>2</sup>	0,85/m <sup>2</sup>	0,7/m <sup>2</sup>
2 Connect T24 Corridor profile, installed at 600 mm centres	1,05/m <sup>2</sup>	0,95/m <sup>2</sup>	0,85/m <sup>2</sup>	0,7/m <sup>2</sup>
3 Connect Angle trim, fixed at 200 mm centres	as required	as required	as required	as required
4 Connect Shadow-line trim, fixed at 200 mm centres	as required	as required	as required	as required
Δ Min. overall depth of system: 40 mm	-	-	-	-
δ Min. demounting depth: 65 mm	-	-	-	-



Size, mm	Max live load [N]	Min load bearing capacity [N]
1600x600x20	40	-
1800x600x20	20	-
2000x600x20	10	-
2400x600x20	0	-

Live load/load bearing capacity

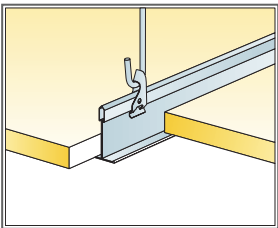
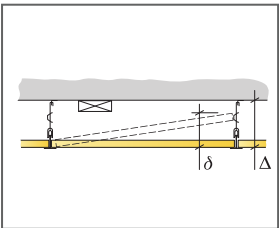
INSTALLATION DIAGRAM (M46) FOR ECOPHON FOCUS A XL



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QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm			
	1600x600	1800x600	2000x600	2400x600
1 Focus A XL	1,05/m <sup>2</sup>	0,95/m <sup>2</sup>	0,85/m <sup>2</sup>	0,7/m <sup>2</sup>
2 Connect T24 Main runner, installed at 600 mm centres	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>
3 Connect T24 Cross tee, L=600 mm	0,65m/m <sup>2</sup>	0,6m/m <sup>2</sup>	0,5m/m <sup>2</sup>	0,45m/m <sup>2</sup>
4 Connect Adjustable hanger, installed at 1500 mm centres (max. distance from wall 450 mm)	1,1/m <sup>2</sup>	1,1/m <sup>2</sup>	1,1/m <sup>2</sup>	1,1/m <sup>2</sup>
5 Connect Hanger clip	1,1/m <sup>2</sup>	1,1/m <sup>2</sup>	1,1/m <sup>2</sup>	1,1/m <sup>2</sup>
6 Connect Angle trim, fixed at 300 mm centres	as required	as required	as required	as required
7 Connect Shadow-line trim, fixed at 300 mm centres	as required	as required	as required	as required
Δ Min. overall depth of system: 100 mm	-	-	-	-
δ Min. demounting depth: 100 mm	-	-	-	-

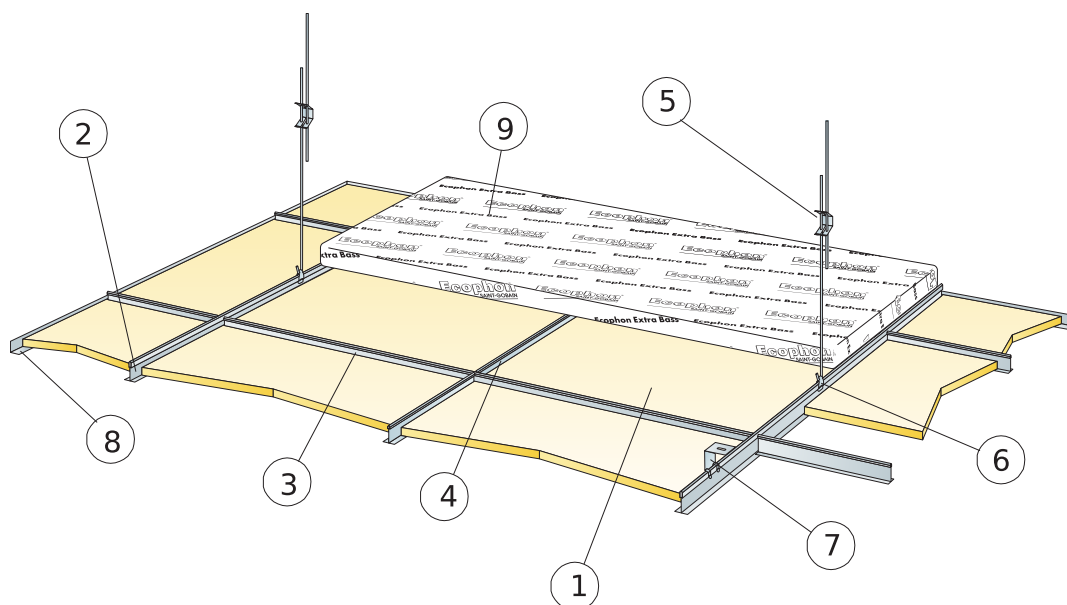


Suspension with adjustable hanger and clip

Size, mm	Max live load [N]	Min load bearing capacity [N]
1600x600x20	50	160
1800x600x20	50	160
2000x600x20	50	160
2400x600x20	50	160

Live load/load bearing capacity

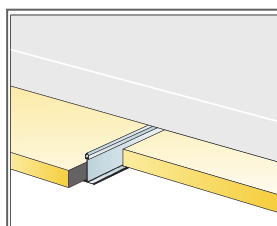
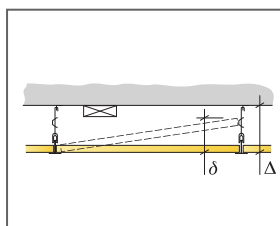
## INSTALLATION DIAGRAM (M399) FOR ECOPHON FOCUS A



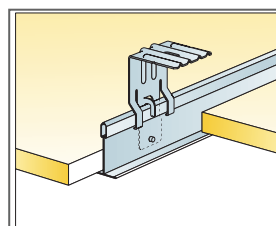
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## QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm	
	600x600	1200x600
1 Focus A	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>
2 Connect T24 Main runner black, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall).	0,9m/m <sup>2</sup>	0,9m/m <sup>2</sup>
3 Connect T24 Cross tee black, L=1200 mm, installed at 600 mm centres	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>
4 Connect T24 Cross tee black, L=600 mm	0,9m/m <sup>2</sup>	-
5 Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
6 Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
7 For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
8 Connect Angle trim black, fixed at 300 mm centres	as required	as required
9 Extra Bass (1200x600x50 mm)	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
Δ Min. overall depth of system: Focus A: 50 mm (Direct bracket). Focus A/with Extra bass: 100 mm.	-	-
δ Min. demounting depth: Focus A: 130 mm, Focus A/with Extra bass: 170 mm	-	-



Installation with Extra Bass



Fixing with direct bracket

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600x20	50	160
1200x600x20	50	160

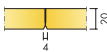
Live load/load bearing capacity

# Ecophon Focus™ B

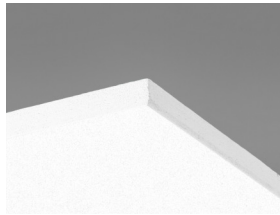
Ecophon Focus™ B are bonded edge-to-edge directly to the soffit surface, creating a ceiling with a smooth appearance. The bevelled edge creates a narrow groove between each tile. For applications where the minimum possible overall depth of system is required.



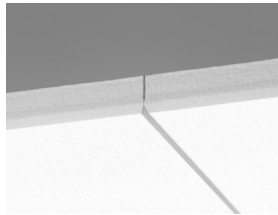
## SYSTEM RANGE



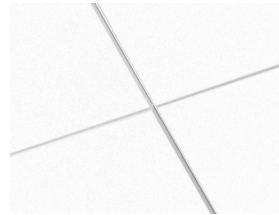
Size, mm	600x600
Direct	•
Thickness	20
Inst. Diag.	M03



Focus B tile



Section of Focus B system



Focus B system

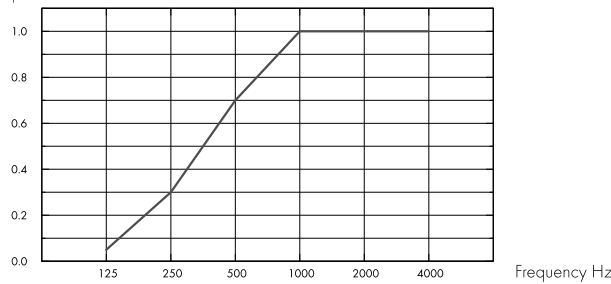


## Acoustic

### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

$\alpha_p$ , Practical sound absorption coefficient



— Focus B 20 mm, 23 mm o.d.s.  
o.d.s = overall depth of system

THK mm	o.d.s. mm	$\alpha_p$ , Practical sound absorption coefficient						$\alpha_w$	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
20	23	0.05	0.30	0.70	1.00	1.00	1.00	0.60	C

THK mm	o.d.s. mm	NRC	SAA
20	23	0.75	0.77



## Indoor Air Quality

Certificate / Label	
Eurofins Indoor Air Comfort®	IAC Gold
French VOC	A+



## Cradle to Cradle Certified®



This product is Cradle to Cradle Certified® at Bronze level (version 4.0).



## Material Health

This product has received a C2C Certified Material Health Certificate™ at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate™ is a verification of the health and safety of a product's composition using the Material Health requirements of the Cradle-to-Cradle Certified Product Standard.



## Carbon footprint

kg CO <sub>2</sub> equiv/m <sup>2</sup>		Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Focus B	4,10	



## Circularity

Minimum post-consumer recycled content	56%
Recyclability	Fully recyclable



## Fire safety

Country	Fire standard	Class	The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.
Europe	EN 13501-1	A2-s1,d0	



## Humidity Resistance

Class C, relative humidity 95% and 30°C, according to EN 13964:2014



## Visual appearance

White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.



## Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



## Accessibility

The tiles are non-demountable.



## Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. Rendered surfaces must have sufficient strength to be able to carry the load imposed by the tiles. If doubts, test gluing should be carried out. The surface should always be dry and clean. For best result the surface should be even.



## System weight

kg/m <sup>2</sup>		Weight information is indicative and subject to variation.
Focus B	2,5	



## Mechanical properties

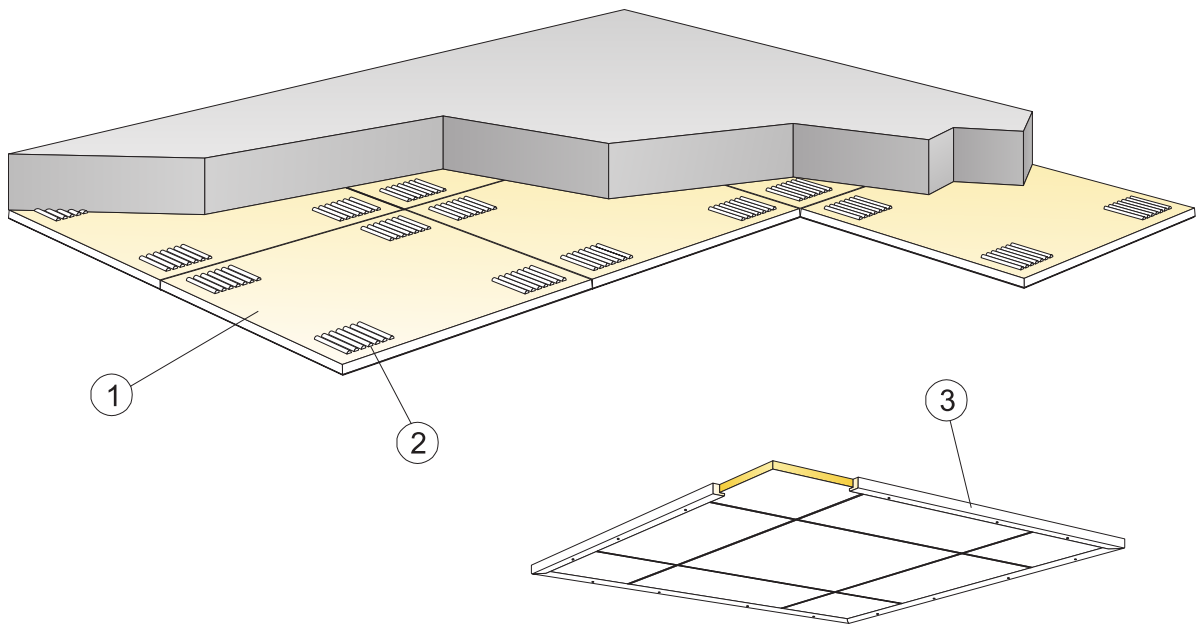
Additional live load has to be fixed to the soffit.



## CE

Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

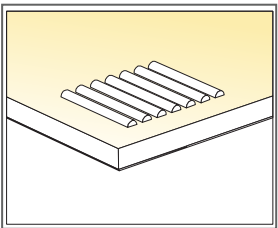
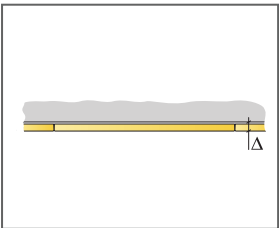
INSTALLATION DIAGRAM (M03) FOR ECOPHON FOCUS B, USING CONNECT ABSORBER GLUE



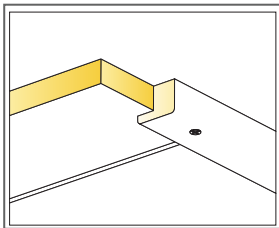
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		600x600
1	Focus B	2,8/m²
2	Connect Absorber glue (0,25 l/m² - 0,4 l/m² depending on installation conditions) (10 litres)	as required
	Use Connect Notched spatula to apply the glue.	-
3	When installing floating ceilings: Connect Wood trim, L=2500, fixed at 500 mm centres	as required
	Δ Min. overall depth of system: 23 mm	-
	δ Min. demounting depth: The system is non-demountable	-
	Cut visible edges should be painted	-



Application of glue



Wood trim for floating installation

Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x20	-	-

Live load/load bearing capacity

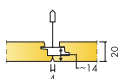


# Ecophon Focus™ Ds

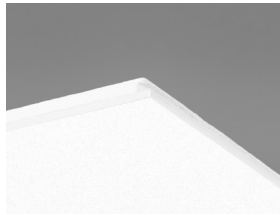
Ecophon Focus™ Ds is ideal when looking for a modular acoustic ceiling with discreet edge design. It has a concealed grid and bevelled edges with a narrow groove between each tile. Easy to install with the possibility to integrate light fittings and ventilation. For applications with high demand on both acoustics and design, and where individual tiles must be easily demountable.



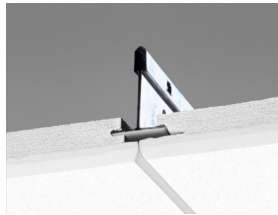
## SYSTEM RANGE



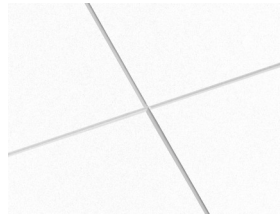
Size, mm	600x600	1200x600	1200x1200	XL 1600x600	XL 1800x600	XL 2000x600	XL 2400x600
T24	•	•	•	•	•	•	•
Thickness	20	20	20	20	20	20	20
Inst. Diagr.	M581, M583, M584, M613, M614	M581, M583, M584, M613, M614	M582	M581, M238	M581, M238	M581, M238	M581, M238



Focus Ds tile



Section of Focus Ds system with  
Connect T24 Main runner PL



Focus Ds system



The individual tiles are easily  
demountable

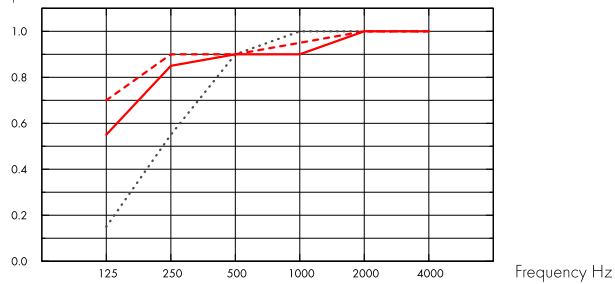


## Acoustic

### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

$\alpha_p$ , Practical sound absorption coefficient



.... Focus Ds 20 mm, 65 mm o.d.s.

— Focus Ds 20 mm, 200 mm o.d.s.

- - - Focus Ds 20 mm + Extra Bass 50 mm, 200 mm o.d.s.

o.d.s = overall depth of system

	THK mm	o.d.s. mm	$\alpha_p$ , Practical sound absorption coefficient						$\alpha_w$	Sound absorption class
			125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
-	20	65	0.15	0.55	0.90	1.00	1.00	1.00	0.85	B
-	20	200	0.55	0.85	0.90	0.90	1.00	1.00	0.95	A
+ Extra Bass	70	200	0.70	0.90	0.90	0.95	1.00	1.00	0.95	A

	THK mm	o.d.s. mm	NRC	SAA
-	20	65	0.85	0.86
-	20	200	0.90	0.93
+ Extra Bass	70	200	0.95	0.95

THK mm	AC(1.5) Articulation Class, ASTM E1111, ASTM E1110	$D_{nfw}$ Weighted normalized flanking level difference, ISO 10848-2	CAC dB Ceiling Attenuation Class, ASTM 1414, ASTM E413
20	180	24	23

## Indoor Air Quality



Certificate / Label

Eurofins Indoor Air Comfort®

IAC Gold

French VOC

A+





## Cradle to Cradle Certified®



This product is Cradle to Cradle Certified® at Bronze level (version 4.0).



### Material Health

This product has received a C2C Certified Material Health Certificate™ at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate™ is a verification of the health and safety of a product's composition using the Material Health requirements of the Cradle-to-Cradle Certified Product Standard.



### Carbon footprint

	kg CO <sub>2</sub> equiv/m <sup>2</sup>	Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Focus Ds (EN 15804+A2)	3,68	



### Circularity

Minimum post-consumer recycled content	54%
Recyclability	Fully recyclable



### Fire safety

Country		Class	The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.
Europe	EN 13501-1	A2-s1,d0	



### Humidity Resistance

Class C, relative humidity 95% and 30°C, according to EN 13964:2014



### Visual appearance

White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.



### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



### Accessibility

The tiles in size 600x600 and 1200x600 are easily demountable. The tiles in size 1200x1200 and XL sizes are demountable. Minimum demounting depth according to installation diagrams.



### Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. The systems are not recommended for small rooms (approximately 2x2 m<sup>2</sup>). Ceilings with a large amount of integrations require careful planning, design and installation.



### System weight

	kg/m <sup>2</sup>
Focus Ds	2
Focus Ds + Connect grid system	2,9

Weight information is indicative and subject to variation.



### Mechanical properties

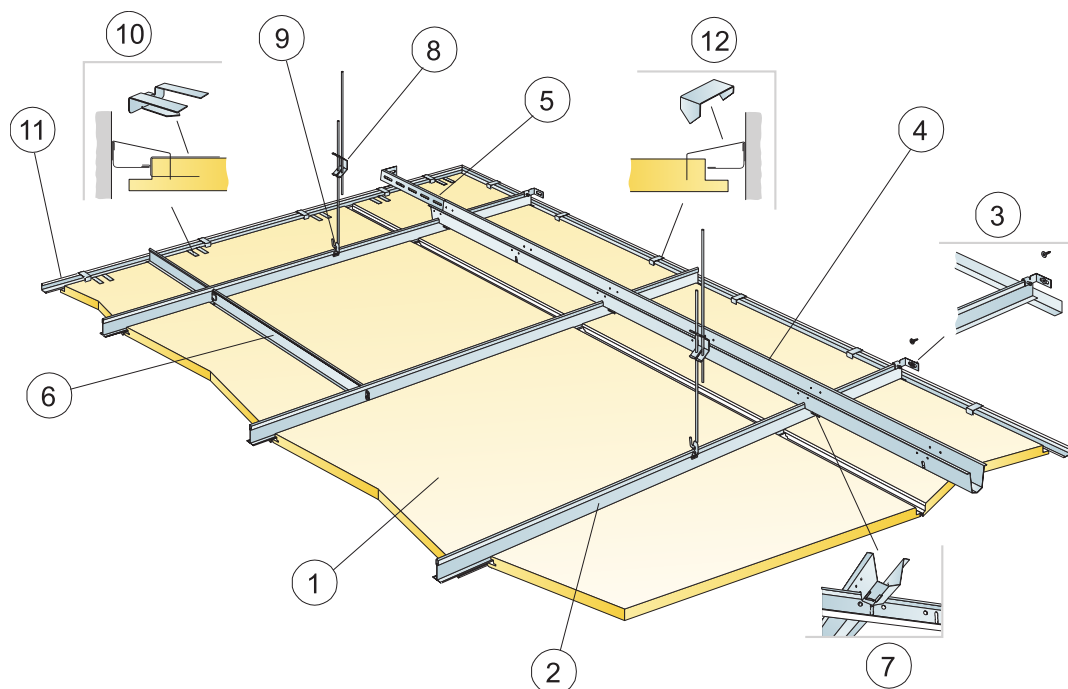
See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at [www.ecophon.com](http://www.ecophon.com).



### CE

Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

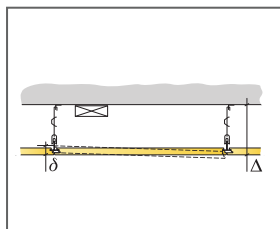
# INSTALLATION DIAGRAM (M581) FOR ECOPHON FOCUS DS 600X600, 1200X600 MM AND ECOPHON FOCUS DS XL. SUSPENDED INSTALLATION



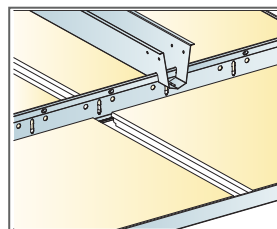
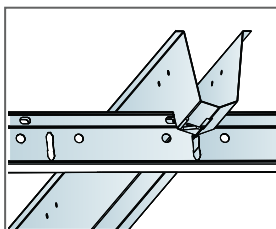
©Saint-Gobain Ecophon AB

## QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm					
	600x600	1200x600	1600x600	1800x600	2000x600	2400x600
1 Focus Ds	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>	1,05/m <sup>2</sup>	0,95/m <sup>2</sup>	0,85/m <sup>2</sup>	0,7/m <sup>2</sup>
2 Connect T24 Main Runner PL, installed at 600 mm centres	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>
3 Connect Wall Bracket for T-profiles	1/suspended row of Main runner					
4 Connect Space Bar, installed at 1500 mm centres (max. distance from wall 0,7m/m <sup>2</sup> 300 mm)		0,7m/m <sup>2</sup>	0,7m/m <sup>2</sup>	0,7m/m <sup>2</sup>	0,7m/m <sup>2</sup>	0,7m/m <sup>2</sup>
5 Connect Wall Bracket, L=700 mm, for Connect Space Bar	1/row of Space bar					
6 Connect T24 Cross Tee, L=600 mm	2/row of Main runner					
7 Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	1,4/m <sup>2</sup>	1,4/m <sup>2</sup>	1,4/m <sup>2</sup>	1,4/m <sup>2</sup>	1,4/m <sup>2</sup>	1,4/m <sup>2</sup>
8 Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
9 Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
10 Connect Support clip DG20	1pc/300-400 mm on every cut perimeter tile with only 1 supporting edge					
11 Connect Angle trim 15/22, fixed at 300 mm centres	as required	as required	as required	as required	as required	as required
12 Connect Perimeter tile clip	1/300-400mm on any cut edge					
Δ Min. overall depth of system: 120 mm	-	-	-	-	-	-
δ Min. demounting depth: 30 mm	-	-	-	-	-	-
For luminaire integration in panels use Connect Bridging	-	-	-	-	-	-



See Quantity Specification

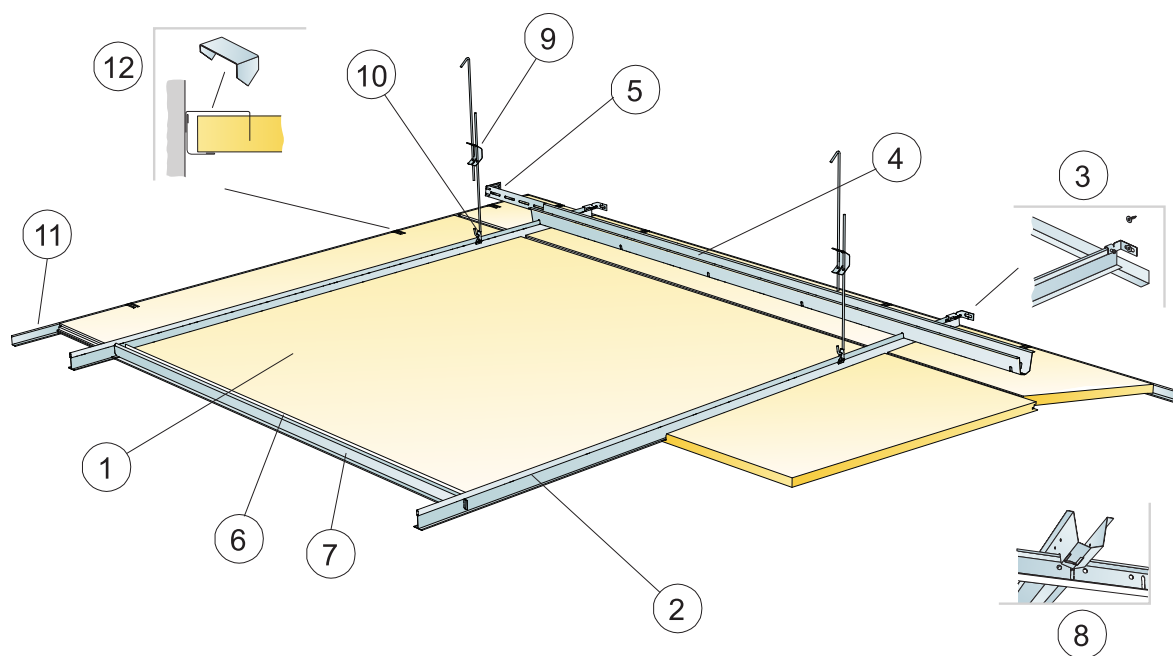


Installation with Main runner PL and space bar

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600x20	35	160
1200x600x20	35	160
1600x600x20	35	160
1800x600x20	35	160
2000x600x20	35	160
2400x600x20	35	160

Live load/load bearing capacity

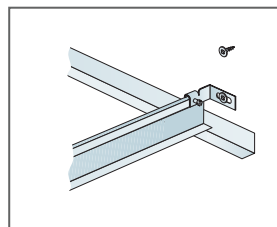
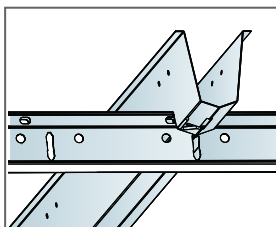
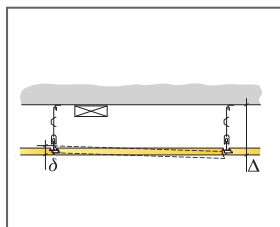
## INSTALLATION DIAGRAM (M582) FOR ECOPHON FOCUS DS 1200X1200 MM. SUSPENDED INSTALLATION



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## QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		1200x1200
1	Focus Ds	0,7/m <sup>2</sup>
2	Connect T24 Main Runner PL, installed at 1200 mm centres	0,9m/m <sup>2</sup>
3	Connect Wall Bracket for T-profiles	1/suspended row of Main runner
4	Connect Space Bar, installed at 1500 mm centres (max. distance from wall 300 mm)	0,7m/m <sup>2</sup>
5	Connect Wall Bracket, L=700 mm, for Connect Space Bar	1/row of Space bar
6	Connect Edge stiffener	1,4/m <sup>2</sup>
7	Connect T24 Cross tee, L=1200 mm	2/row of Main runner
8	Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	0,7/m <sup>2</sup>
9	Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m <sup>2</sup>
10	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m <sup>2</sup>
11	Connect Angle trim 15/22, fixed at 300 mm centres	as required
12	Connect Perimeter tile clip	1/300-400mm on any cut edge
Δ Min. overall depth of system: 120 mm		-
δ Min. demounting depth: 50 mm		-
For luminaire integration in panels use Connect Bridging		-

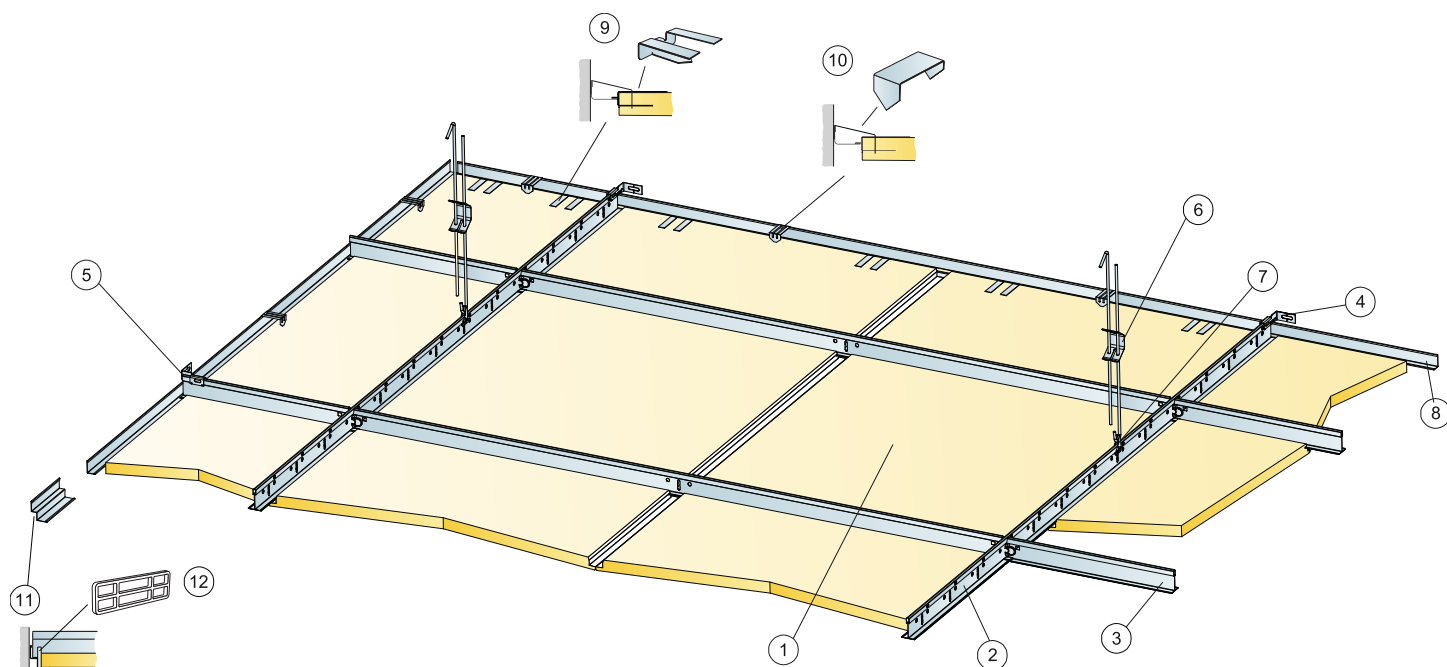


Secured Main runner at wall with Connect Wall bracket

Size, mm	Max live load (N)	Min load bearing capacity (N)
1200x1200x20	50	160

Live load/load bearing capacity

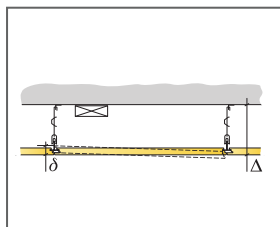
# INSTALLATION DIAGRAM (M583) FOR ECOPHON FOCUS DS 600X600, 1200X600 MM. SUSPENDED INSTALLATION



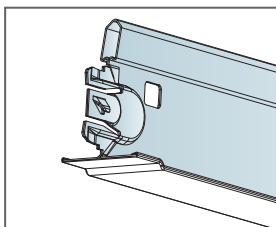
©Saint-Gobain Ecophon AB

## QUANTITY SPECIFICATION (EXCL. WASTAGE)

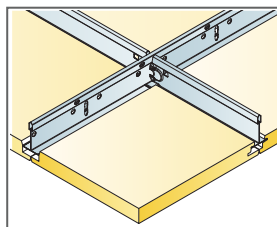
Size, mm		
	600x600	1200x600
1 Focus Ds	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>
2 Connect T24 Main Runner PL, installed at 1200 mm centres	0,9m/m <sup>2</sup>	0,9m/m <sup>2</sup>
3 Connect T24 Cross Tee PL, L=1200 mm, installed at 600 mm centres	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>
4 Connect Wall Bracket, fixed 1200mm centres for Main runner	2/suspended row of Main runner	
5 Connect Wall Bracket, fixed 1200mm centres for Cross tee	1/row of cross tee	
6 Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
7 Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
8 Connect Angle trim 15/22, fixed at 300 mm centres	as required	as required
9 Connect Support clip DG20	1pc/300-400 mm on every cut perimeter tile with only 1 supporting edge	
10 Connect Perimeter tile clip	1/perimeter tile	
11 Connect Shadow-line trim, fixed at 300 mm centres	as required	as required
12 Connect Wall spacer 5	1 on the long side of every cut perimeter tile	
Δ Min. overall depth of system: 120 mm	-	-
δ Min. demounting depth: 30 mm	-	-
For luminaire integration in panels use Connect Bridging	-	-



See Quantity Specification



Cross tee PL

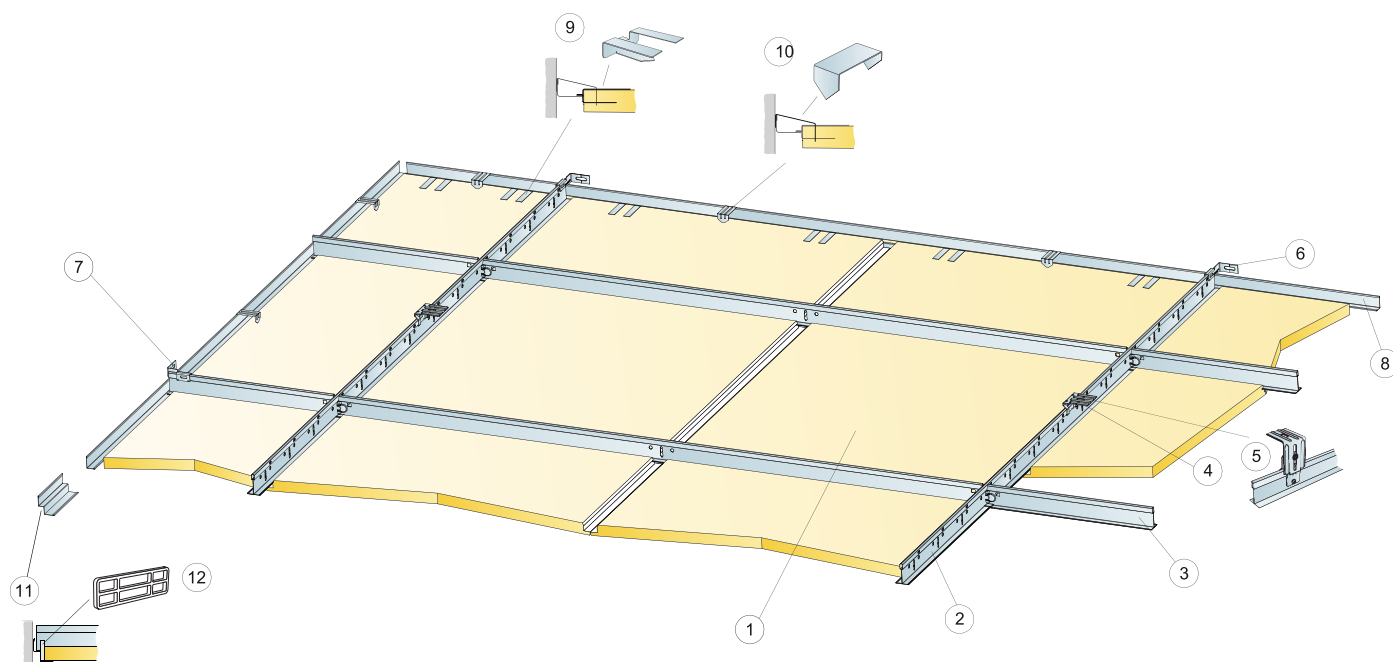


Installation with Main runner PL and Cross tee PL

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600x20	50	160
1200x600x20	50	160

Live load/load bearing capacity

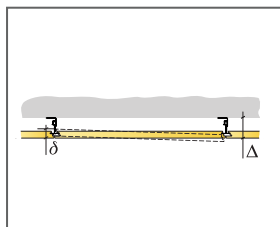
## INSTALLATION DIAGRAM (M584) FOR ECOPHON FOCUS DS 600X600, 1200X600 MM. DIRECT INSTALLATION



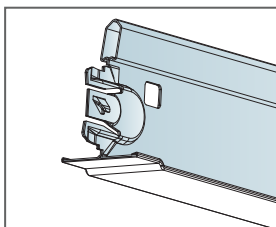
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## QUANTITY SPECIFICATION (EXCL. WASTAGE)

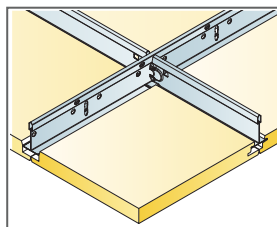
		Size, mm	
		600x600	1200x600
1	Focus Ds	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>
2	Connect T24 Main Runner PL, installed at 1200 mm centres	0,9m/m <sup>2</sup>	0,9m/m <sup>2</sup>
3	Connect T24 Cross Tee PL, L=1200 mm, installed at 600 mm centres	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>
4	Connect Direct bracket, installed at 1200 mm centres	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
5	Alt. Connect Adjust direct bracket, installed at 1200 mm centres	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
6	Connect Wall Bracket, fixed 1200mm centres for Main runner	2/suspended row of Main runner	
7	Connect Wall Bracket, fixed 1200mm centres for Cross tee	1/row of cross tee	
8	Connect Angle trim 15/22, fixed at 300 mm centres	as required	as required
9	Connect Support clip DG20	1pc/300-400 mm on every cut perimeter tile with only 1 supporting edge	
10	Connect Perimeter tile clip	1/perimeter tile	
11	Connect Shadow-line trim, fixed at 300 mm centres	as required	as required
12	Connect Wall spacer 5	1 on the long side of every cut perimeter tile	
Δ Min. overall depth of system: 65 mm		-	-
δ Min. demounting depth: 30 mm		-	-
For luminaire integration in panels use Connect Bridging		-	-



See Quantity Specification



Cross tee PL



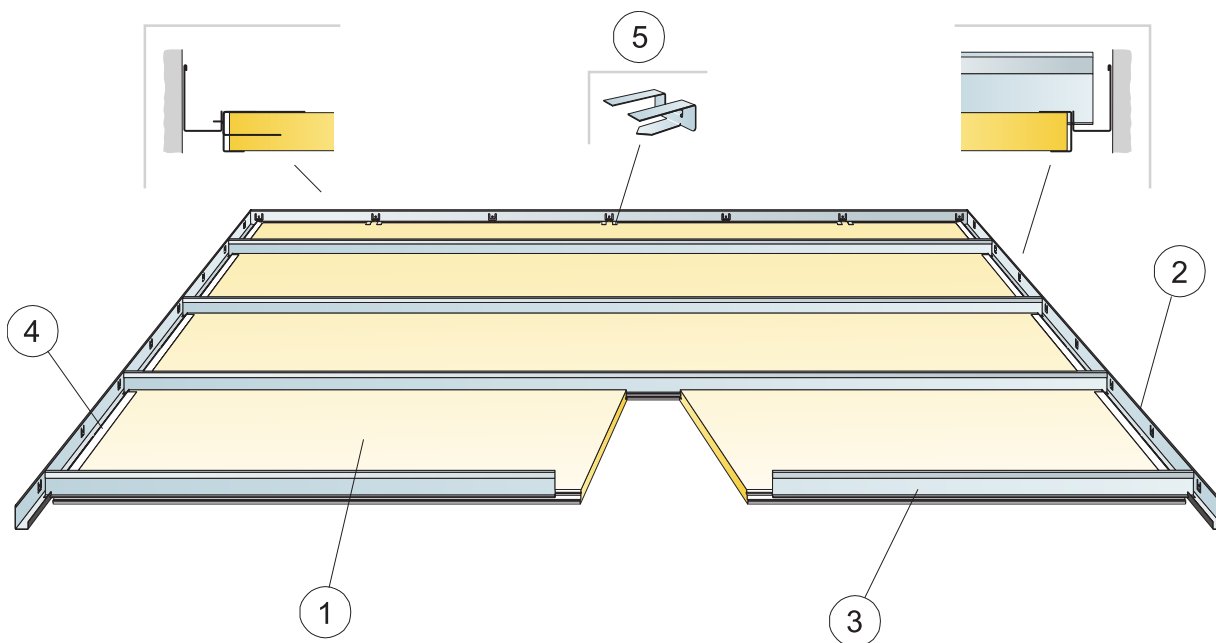
Installation with Main runner PL and Cross tee PL

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600x20	50	160
1200x600x20	50	160

Live load/load bearing capacity



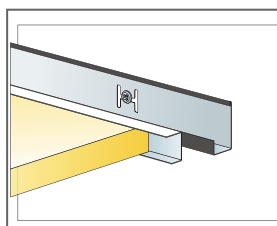
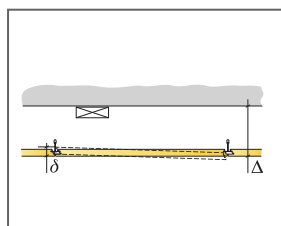
## INSTALLATION DIAGRAM (M238) FOR ECOPHON FOCUS DS XL IN CORRIDORS



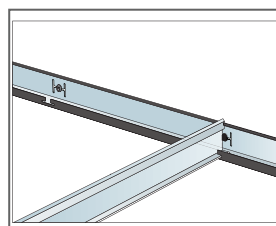
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### QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm			
		1600x600	1800x600	2000x600	2400x600
1	Focus Ds XL	1,05/m <sup>2</sup>	0,95/m <sup>2</sup>	0,85/m <sup>2</sup>	0,7/m <sup>2</sup>
2	Connect Modular Wall trim	as required	as required	as required	as required
3	Connect T24 Corridor profile	1,05/m <sup>2</sup>	0,95/m <sup>2</sup>	0,85/m <sup>2</sup>	0,7/m <sup>2</sup>
4	Connect Cover trim Ds	2/tile plus end tiles			
5	Connect Support clip Dg 20 0547	1pc/300-400 mm on every cut perimeter tile with only 1 supporting edge			
Δ Min. overall depth of system: 55 mm		-	-	-	-
δ Min. demounting depth: 30 mm		-	-	-	-



Tile and Connect Cover trim Ds

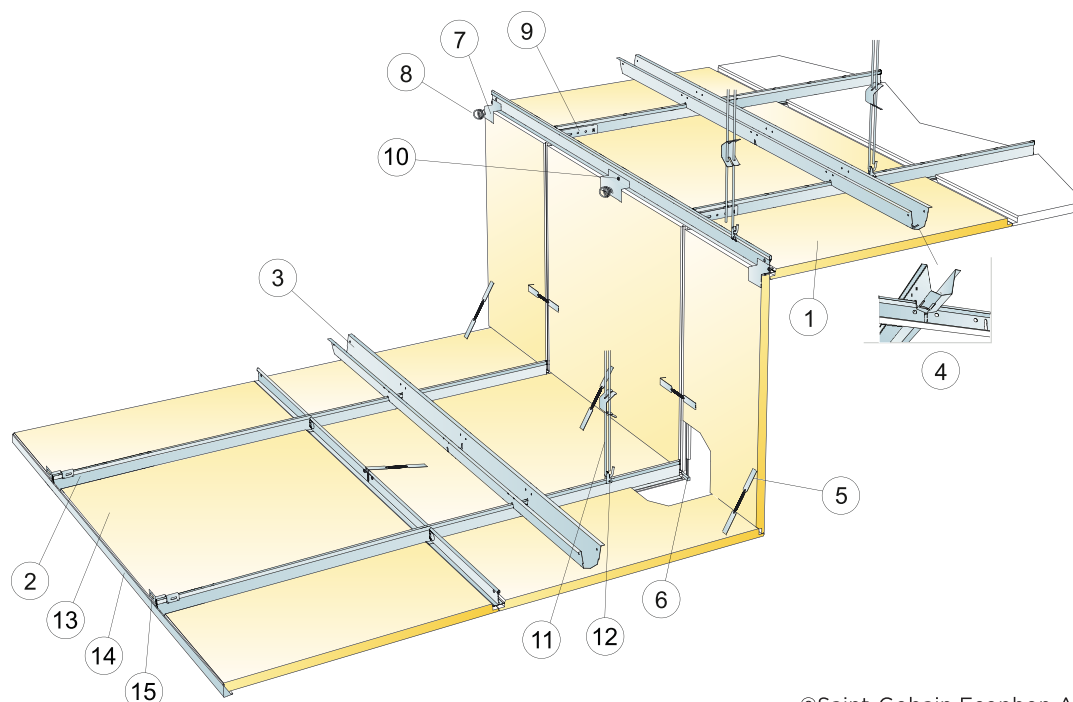


Corridor profile positioned by Modular wall trim

Size, mm	Max live load [N]	Min load bearing capacity [N]
1600x600x20	40	-
1800x600x20	20	-
2000x600x20	10	-
2400x600x20	0	-

Live load/load bearing capacity

## INSTALLATION DIAGRAM (M613) FOR ECOPHON FOCUS DS LEVEL CHANGE. SUSPENDED INSTALLATION

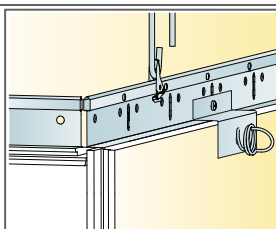
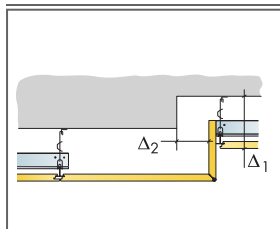


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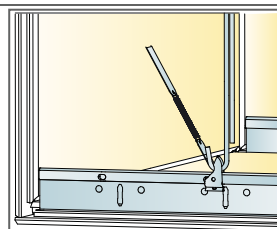
## QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm	
	600x600	1200x600
1 Focus Ds	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>
2 Connect T24 Main Runner PL, installed at 600 mm centres	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>
3 Connect Space bar, installed at 1500 mm centres (max. distance from Vertical tile 450 mm)	0,7m/m <sup>2</sup>	0,7m/m <sup>2</sup>
4 Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	1,4/m <sup>2</sup>	1,4/m <sup>2</sup>
5 Connect Hook	3/panel	3/panel
6 Connect Level Clip Ds (included in Level change Ds kit)	1/panel	1/panel
7 Connect level clip Ds (included in Level change Ds kit)	1/panel	1/panel
8 Connect Spiral anchor	1/panel	1/panel
9 Connect L-coupling	1/row of Main runner	
10 Connect Installation screw BR (2000 pcs)	as required	as required
11 Connect Adjustable hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
12 Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
13 Focus Ds Perimeter tile L=300-600	as required	as required
14 Connect Angle trim 15/22, fixed at 300 mm centres	as required	as required
15 Connect Wall Bracket for T-profiles	1/suspended row of Main runner	
Δ Min. overall depth of system: 150 mm from upper level	-	-
δ Min. demounting depth: Individual ceiling tiles are non-demountable	-	-

Dimension: c=600 mm, h&lt;530 mm



Upper level connection to Main runner PL

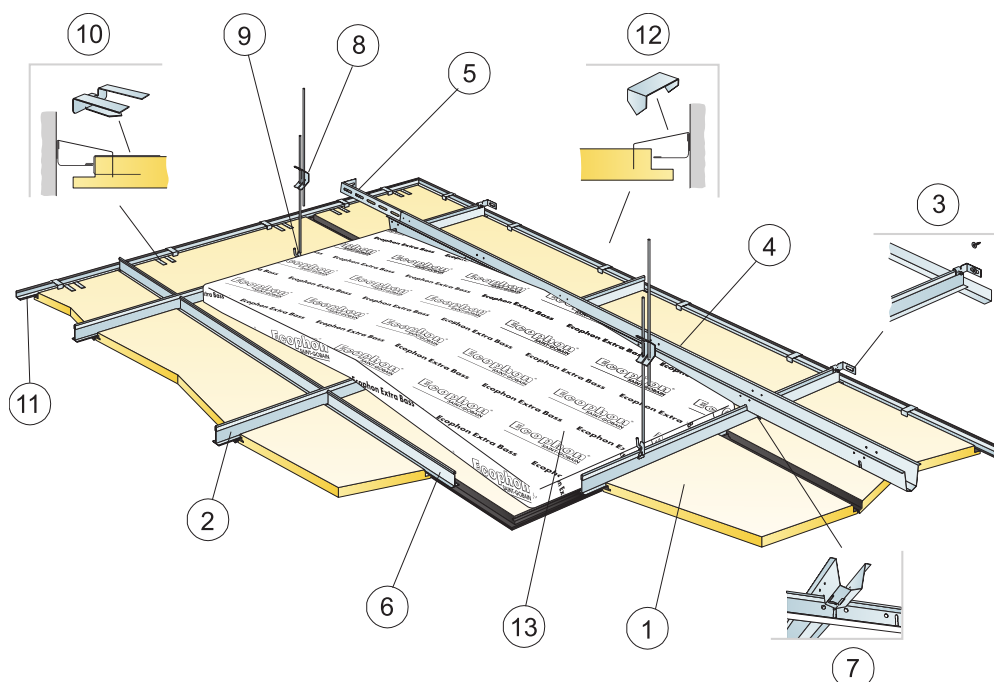


Lower level connection fixed with Hook

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600x20	0	160
1200x600x20	0	160

Live load/load bearing capacity

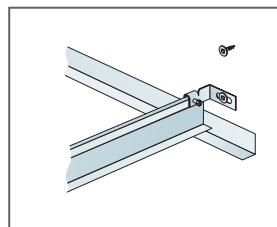
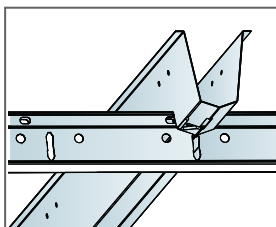
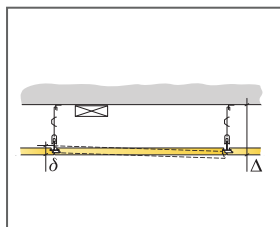
## INSTALLATION DIAGRAM (M614) FOR ECOPHON FOCUS DS. SUSPENDED INSTALLATION



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## QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm	
	600x600	1200x600
1 Focus Ds	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>
2 Connect T24 Main Runner PL, installed at 600 mm centres	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>
3 Connect Wall Bracket for T-profiles	1/suspended row of Main runner	
4 Connect Space Bar, installed at 1500 mm centres (max. distance from wall 300 mm)	0,7m/m <sup>2</sup>	0,7m/m <sup>2</sup>
5 Connect Wall Bracket, L=700 mm, for Connect Space Bar	1/row of Space bar	
6 Connect T24 Cross tee, L=600 mm	2/row of Main runner	
7 Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	1,4/m <sup>2</sup>	1,4/m <sup>2</sup>
8 Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
9 Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
10 Connect Support clip DG20	1/300-400mm on any cut edge	
11 Connect Angle trim black, fixed at 300 mm centres	as required	as required
12 Connect Perimeter tile clip	1/300-400mm on any cut edge	
13 Extra Bass (1200x600x50 mm)	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
Δ Min. overall depth of system: 120 mm	-	-
δ Min. demounting depth: 30 mm	-	-



Connection between profiles with split pin

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600x20	25	160
1200x600x20	25	160

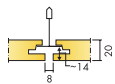
Live load/load bearing capacity

# Ecophon Focus™ Dg

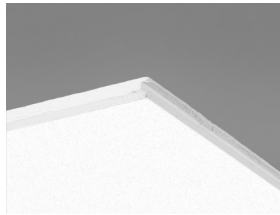
Ecophon Focus™ Dg conceals the supporting tile edges and creates a distinctive floating appearance. Tiles are easily demountable even in areas where there is a very small overall depth of system. For applications where a unique demountable suspended ceiling is required.



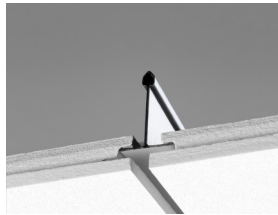
## SYSTEM RANGE



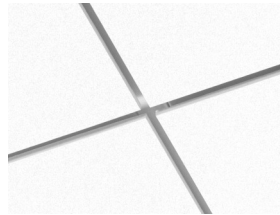
Size, mm	600x600	1200x600	1200x1200	XL 1600x600	XL 1800x600	XL 2000x600	XL 2400x600
T24	•	•	•	•	•	•	•
Thickness	20	20	25	20	20	20	20
Inst. Diag.	M202	M202	M203	M204	M204	M204	M204



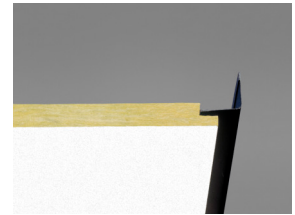
Focus Dg tile



Section of Focus Dg system with Connect T24 Main runner HD



Section of Focus Dg system



Focus Dg with Connect Angle trim Ultra matt black

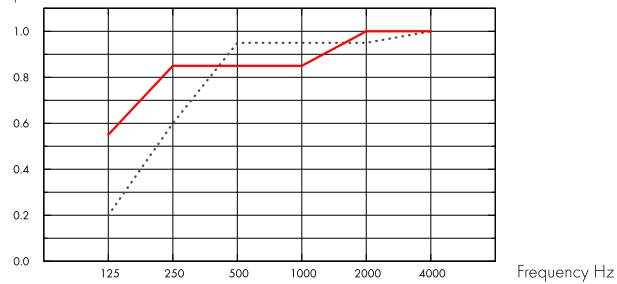


## Acoustic

### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

$\alpha_p$ , Practical sound absorption coefficient



.... Focus Dg 20 mm, 65 mm o.d.s.

— Focus Dg 20 mm, 200 mm o.d.s.

o.d.s = overall depth of system

THK mm	o.d.s. mm	$\alpha_p$ , Practical sound absorption coefficient						$\alpha_w$	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
20	65	0.20	0.60	0.95	0.95	0.95	1.00	0.90	A
20	200	0.55	0.85	0.85	0.85	1.00	1.00	0.90	A

THK mm	o.d.s. mm	NRC	SAA
20	65	0.90	0.89
20	400	0.80	0.82

THK mm	AC(1.5) Articulation Class, ASTM E1111, ASTM E1110	
20	180	



## Indoor Air Quality

Certificate / Label	
Eurofins Indoor Air Comfort®	IAC Gold
French VOC	A+



## Cradle to Cradle Certified®



This product is Cradle to Cradle Certified® at Bronze level (version 4.0).



### Material Health

This product has received a C2C Certified Material Health Certificate™ at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate™ is a verification of the health and safety of a product's composition using the Material Health requirements of the Cradle-to-Cradle Certified Product Standard.



### Carbon footprint

kg CO <sub>2</sub> equiv./m <sup>2</sup>		Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Focus Dg	4,20	



### Circularity

Minimum post-consumer recycled content	59%
Recyclability	Fully recyclable



### Fire safety

Country	Fire standard	Class	The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.
Europe	EN 13501-1	A2-s1,d0	



### Humidity Resistance

Class C, relative humidity 95% and 30°C, according to EN 13964:2014



### Visual appearance

White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.



### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



### Accessibility

The tiles in size 600x600 and 1200x600 are easily demountable. The tiles in size 1200x1200 and XL sizes are demountable. Minimum demounting depth according to installation diagrams.



### Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. The systems are not recommended for small rooms (approximately 2x2 m2). Ceilings with a large amount of integrations require careful planning, design and installation.



### System weight

	kg/m <sup>2</sup>	Weight information is indicative and subject to variation.
Focus Dg	2,3	
Focus Dg + Connect grid system	3,3	
Focus Dg 25 mm	2,8	
Focus Dg 25 mm + Connect grid system	3,8	



### **Mechanical properties**

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See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at [www.ecophon.com](http://www.ecophon.com).

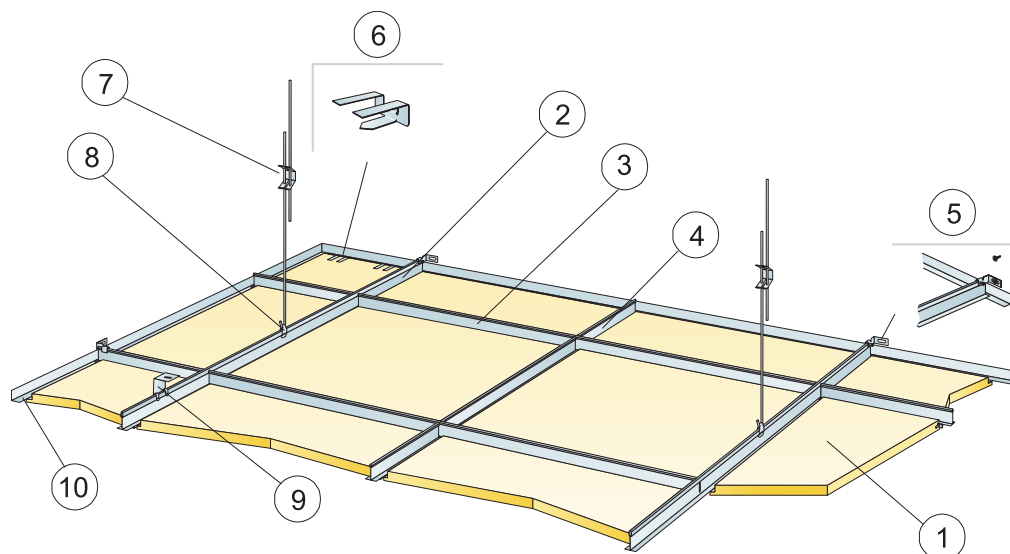


### **CE**

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Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

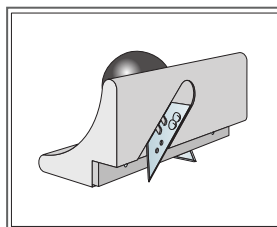
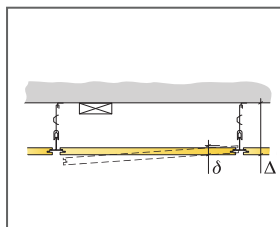
## INSTALLATION DIAGRAM (M202) FOR ECOPHON FOCUS DG 600X600, 1200X600 MM



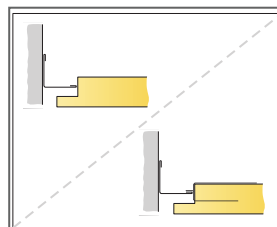
© Ecophon Group

## QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm	
	600x600	1200x600
1 Focus Dg	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>
2 Connect T24 Main runner HD, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall).	0,9m/m <sup>2</sup>	0,9m/m <sup>2</sup>
3 Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>
4 Connect T24 Cross tee, L=600 mm	0,9m/m <sup>2</sup>	-
5 Connect Wall Bracket for T-profiles	1/suspended row of Main runner	
6 Connect Support clip DG20	1/300-400mm on any cut edge	
7 Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
8 Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
9 For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
10 Connect Angle trim, fixed at 300 mm centres	as required	as required
Min. overall depth of system, with Adjustable hanger: 115 mm, with Direct bracket: 65 mm	-	-
δ Min. demounting depth: 30 mm	-	-
For luminaire integration in panels use Connect Bridging	-	-



Cutting tool Dg



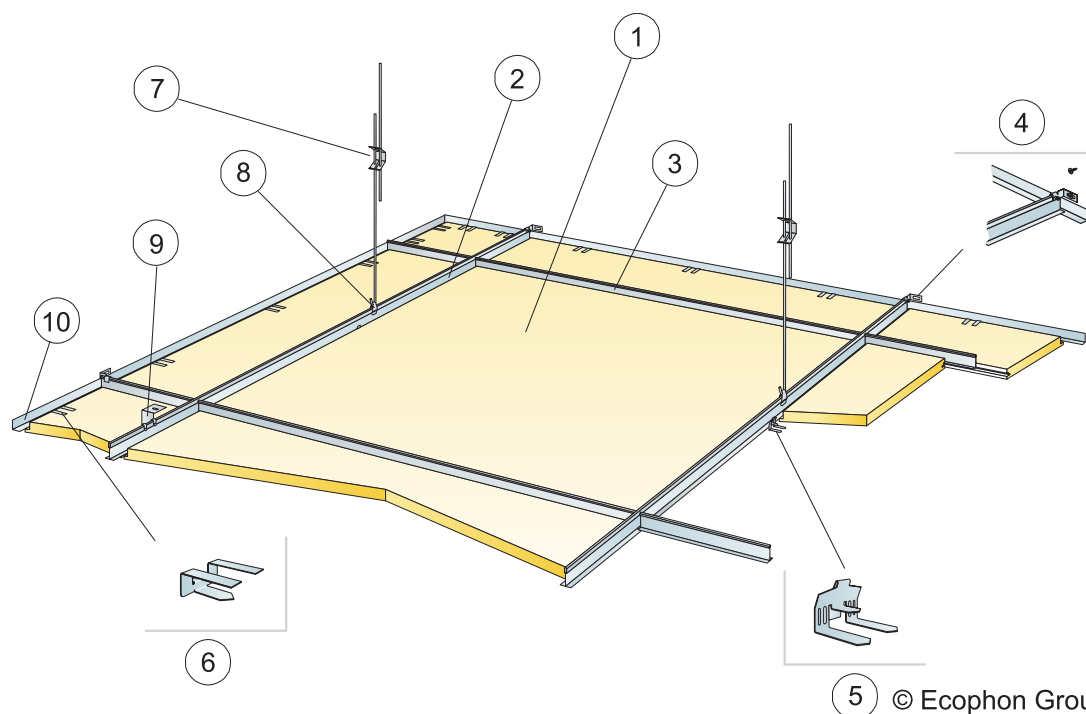
Cut edge with and without support clip

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600x20	50	160
1200x600x20	50	160

Live load/load bearing capacity



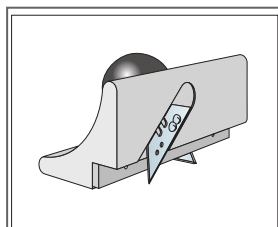
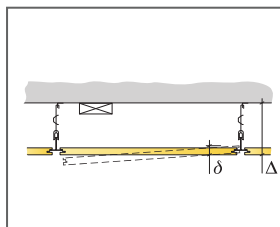
## INSTALLATION DIAGRAM (M203) FOR ECOPHON FOCUS DG 1200X1200 MM



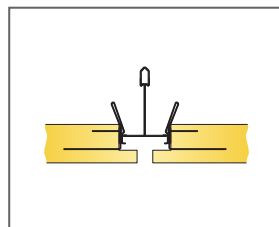
© Ecophon Group

## QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm
	<b>1200x1200</b>
1 Focus Dg	0,7/m <sup>2</sup>
2 Connect T24 Main runner HD, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall).	0,9m/m <sup>2</sup>
3 Connect T24 Cross tee, L=1200 mm, installed at 1200 mm centres	0,9m/m <sup>2</sup>
4 Connect Wall Bracket for T-profiles	1/suspended row of Main runner
5 Connect Edge clip	1,4/m <sup>2</sup>
6 Connect Support clip DG25	1/300-400mm on any cut edge
7 Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m <sup>2</sup>
8 Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m <sup>2</sup>
9 For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m <sup>2</sup>
10 Connect Angle trim, fixed at 300 mm centres	as required
Min. overall depth of system, with Adjustable hanger: 115 mm, with Direct bracket: 65 mm	-
δ Min. demounting depth: 30 mm	-
For luminaire integration in panels use Connect Bridging	-



Cutting tool Dg

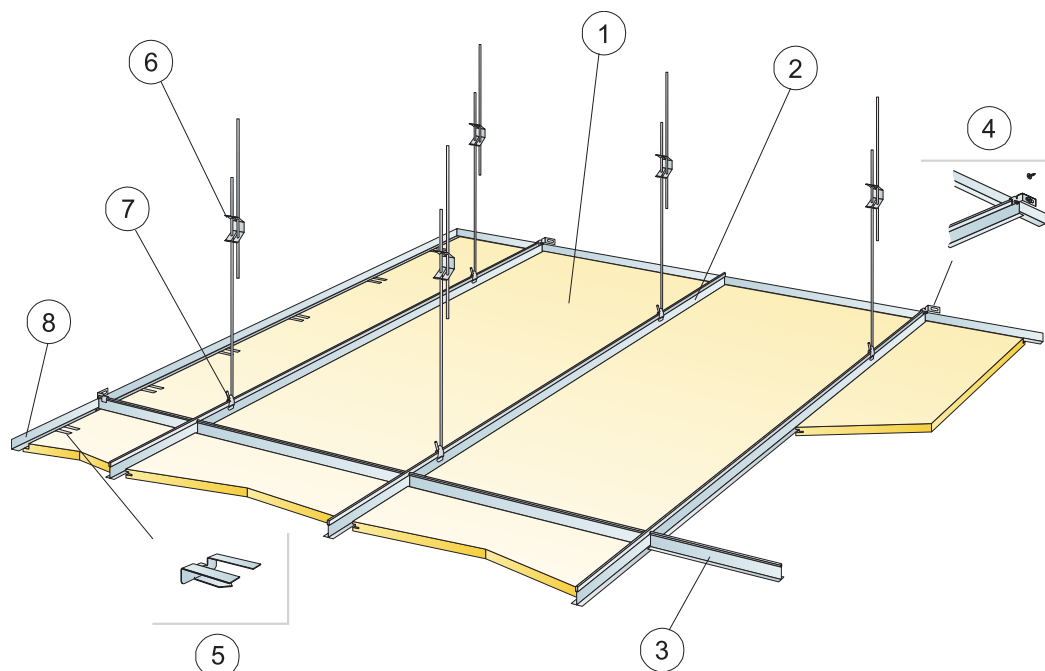


Joint between two unsupported edges with Edge clip

Size, mm	Max live load (N)	Min load bearing capacity (N)
1200x1200x25	50	160

Live load/load bearing capacity

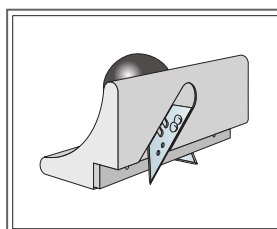
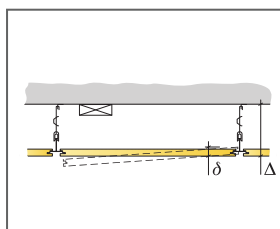
## INSTALLATION DIAGRAM (M204) FOR ECOPHON FOCUS DG XL



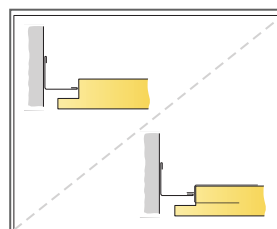
© Ecophon Group

## QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm			
	1600x600	1800x600	2000x600	2400x600
1 Focus Dg XL	1,05/m <sup>2</sup>	0,95/m <sup>2</sup>	0,85/m <sup>2</sup>	0,7/m <sup>2</sup>
2 Connect T24 Main runner HD, installed at 600 mm centres	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>
3 Connect T24 Cross tee, L=600 mm	0,65m/m <sup>2</sup>	0,6m/m <sup>2</sup>	0,5m/m <sup>2</sup>	0,45m/m <sup>2</sup>
4 Connect Wall Bracket for T-profiles	1/suspended row of Main runner			
5 Connect Support clip DG20	1pc/300-400 mm on every cut perimeter tile with only 1 supporting edge			
6 Connect Adjustable hanger, installed at 1500 mm centres (max. distance from wall 450 mm)	1,1/m <sup>2</sup>	1,1/m <sup>2</sup>	1,1/m <sup>2</sup>	1,1/m <sup>2</sup>
7 Connect Hanger clip	1,1/m <sup>2</sup>	1,1/m <sup>2</sup>	1,1/m <sup>2</sup>	1,1/m <sup>2</sup>
8 Connect Angle trim, fixed at 300 mm centres	as required	as required	as required	as required
Δ Min. overall depth of system: 115 mm	-	-	-	-
δ Min. demounting depth: 30 mm	-	-	-	-



Cutting tool Dg



Cut edge with and without support clip

Size, mm	Max live load [N]	Min load bearing capacity [N]
1600x600x20	50	160
1800x600x20	50	160
2000x600x20	50	160
2400x600x20	50	160

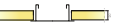
Live load/load bearing capacity

# Ecophon Focus™ D/A

Ecophon Focus™ DA features an edge D on the long side and edge A on the short side. Each panel is individually demounted. Fulfills the strictest functional and aesthetic demands. Especially developed for corridor and bandraaster solutions where long panels are required.



Eneco Head Office, Rotterdam, Netherlands

SYSTEM RANGE			
	Size, mm	XL 1720x600	XL 2000x600
	T24	•	•
	Thickness	20	20
	Inst. Diagr.	M17	M17



Focus D/A tile

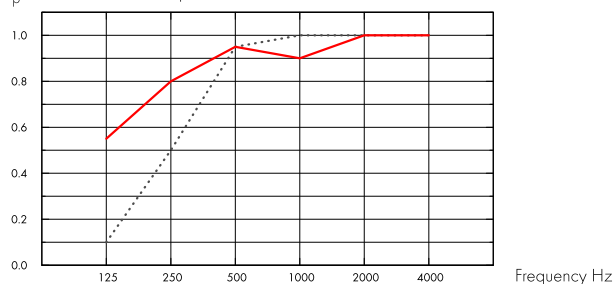


## Acoustic

### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

$\alpha_p$ , Practical sound absorption coefficient



.... Focus D/A 20 mm, 60 mm o.d.s.

— Focus D/A 20 mm, 200 mm o.d.s.

o.d.s = overall depth of system

THK mm	o.d.s. mm	$\alpha_p$ , Practical sound absorption coefficient						$\alpha_w$	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
20	60	0.10	0.50	0.95	1.00	1.00	1.00	0.80	A
20	200	0.55	0.80	0.95	0.90	1.00	1.00	0.95	A

THK mm	o.d.s. mm	NRC	SAA
20	60	0.90	0.89
20	400	0.80	0.82

THK mm	AC(1.5) Articulation Class, ASTM E1111, ASTM E1110	$D_{nfw}$ Weighted normalized flanking level difference, ISO 10848-2	CAC dB Ceiling Attenuation Class, ASTM 1414, ASTM E413
20	180	24	25



## Indoor Air Quality

Certificate / Label	
Eurofins Indoor Air Comfort®	IAC Gold
French VOC	A+



## Cradle to Cradle Certified®



This product is Cradle to Cradle Certified® at Bronze level (version 4.0).



### Material Health

This product has received a C2C Certified Material Health Certificate™ at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate™ is a verification of the health and safety of a product's composition using the Material Health requirements of the Cradle-to-Cradle Certified Product Standard.



### Carbon footprint

kg CO <sub>2</sub> equiv./m <sup>2</sup>		Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Focus DA	4,32	



### Circularity

Minimum post-consumer recycled content	57%
Recyclability	Fully recyclable



### Fire safety

Country	Fire standard	Class	The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.
Europe	EN 13501-1	A2-s1,d0	



### Humidity Resistance

Class C, relative humidity 95% and 30°C, according to EN 13964:2014



### Visual appearance

White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.



### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



### Accessibility

The tiles are easily demountable. Minimum demounting depth according to installation diagrams.



### Installation

Installed according to installation diagram and bandraster/grid supplier recommendations.



### System weight

	kg/m <sup>2</sup>	Weight information is indicative and subject to variation.
Focus D/A	1,9	
Focus D/A + Connect grid system	2,9	



### **Mechanical properties**

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See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at [www.ecophon.com](http://www.ecophon.com).

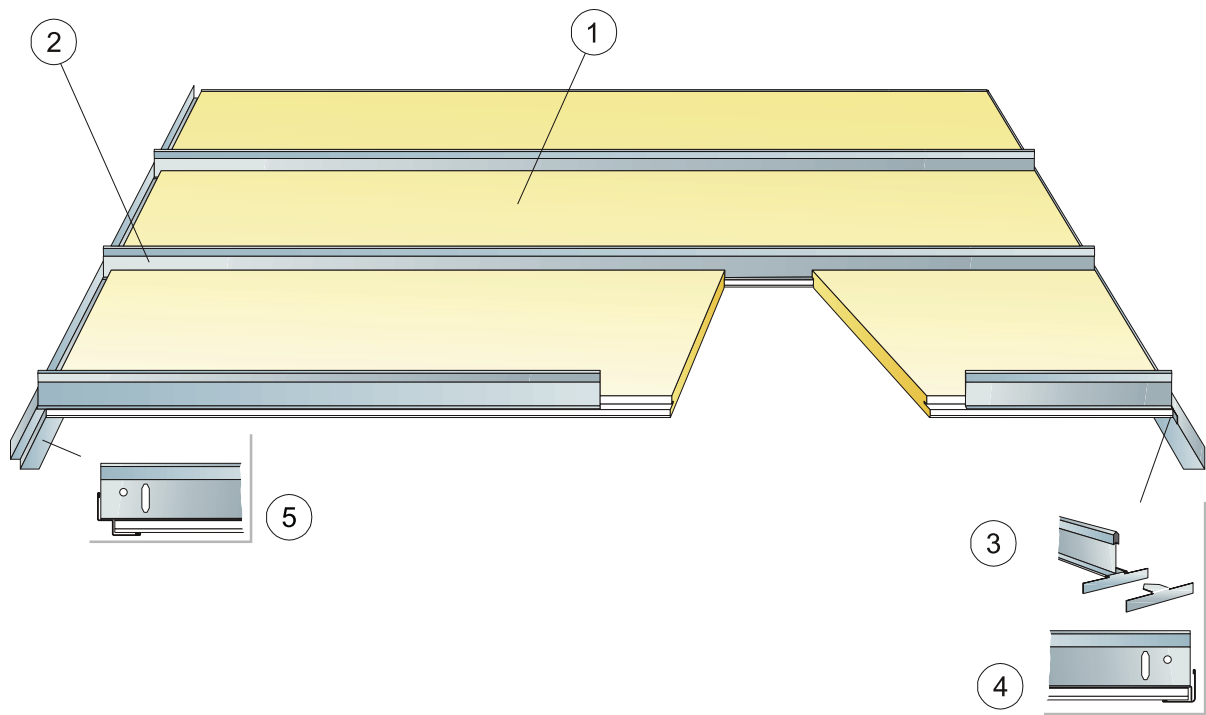


### **CE**

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Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

INSTALLATION DIAGRAM (M17) FOR FOCUS D/A FOR BANDRASTER IN CORRIDOR



QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm		
		1720x600	2000x600	2400x600
1	Focus D/A for corridors	0,97/m <sup>2</sup>	0,85/m <sup>2</sup>	0,7/m <sup>2</sup>
2	Connect T24 Corridor profile, installed at 600 mm centres	0,95/m <sup>2</sup>	0,85/m <sup>2</sup>	0,7/m <sup>2</sup>
3	Connect End fixing plate	1,95/m <sup>2</sup>	1,7/m <sup>2</sup>	1,4/m <sup>2</sup>
4	Connect Angle trim, fixed at 200 mm centres	as required	as required	as required
5	Connect Shadow-line trim, fixed at 200 mm centres	as required	as required	as required
Δ Min. overall depth of system: 50 mm		-	-	-
δ Min. demounting depth: 75 mm		-	-	-

Size, mm	Max live load (N)	Min load bearing capacity (N)
1720x600x20	20	-
2000x600x20	10	-
2400x600x20	0	-

Live load/load bearing capacity

# Ecophon Focus™ E

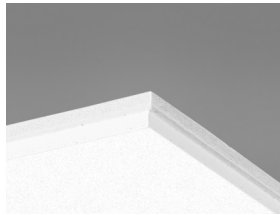
Ecophon Focus™ E has a recessed visible grid and a tegular edge, creating a ceiling with a shadow effect that accentuates each tile and partially conceals the grid. For applications where an attractive suspended ceiling is required and easy removal of individual tiles is essential.



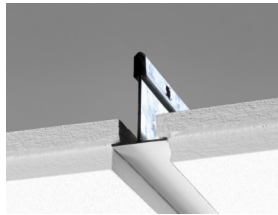
Willbörns Fastigheter, Helsingborg, Sweden

SYSTEM RANGE							
Size, mm	600x600	1200x600	1200x1200	XL 1600x600	XL 1800x600	XL 2000x600	XL 2400x600
Connect T15	•	•	•				
Connect T24	•	•	•	•	•	•	•
Thickness	20	20	20	20	20	20	20
Inst. Diag.	M12	M12	M12	M47, M49	M47, M49	M47, M49	M47, M49

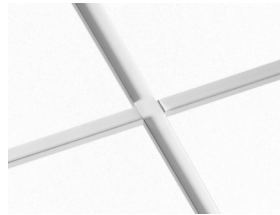




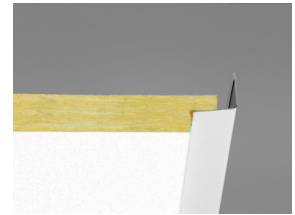
Focus E tile



Section of Focus E system with Connect T24



Focus E system with Connect T24



Focus E with Connect Angle trim

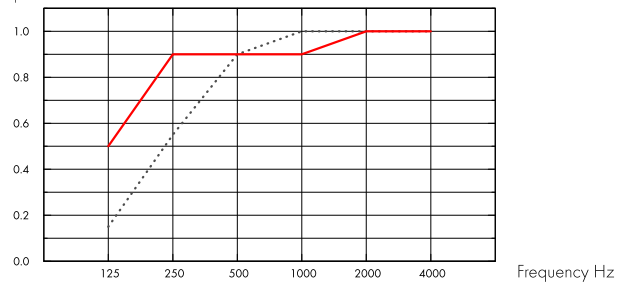


## Acoustic

### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

$\alpha_p$ , Practical sound absorption coefficient



.... Focus E 20 mm, 60 mm o.d.s.

— Focus E 20 mm, 200 mm o.d.s.

o.d.s = overall depth of system

THK mm	o.d.s. mm	$\alpha_p$ , Practical sound absorption coefficient						$\alpha_w$	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
20	60	0.15	0.55	0.90	1.00	1.00	1.00	0.85	B
20	200	0.50	0.90	0.90	0.90	1.00	1.00	0.95	A

THK mm	o.d.s. mm	NRC	SAA
20	60	0.90	0.87
20	400	0.85	0.85

THK mm	AC(1.5) Articulation Class, ASTM E1111, ASTM E1110	$D_{nfw}$ Weighted normalized flanking level difference, ISO 10848-2	CAC dB Ceiling Attenuation Class, ASTM 1414, ASTM E413
20	180	22	23



## Indoor Air Quality

Certificate / Label	
Eurofins Indoor Air Comfort®	IAC Gold
French VOC	A+



## Material Health

This product has received a C2C Certified Material Health Certificate™ at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate™ is a verification of the health and safety of a product's composition using the Material Health requirements of the Cradle-to-Cradle Certified Product Standard.



## Cradle to Cradle Certified®



This product is Cradle to Cradle Certified® at Bronze level (version 4.0).



### Carbon footprint

kg CO <sub>2</sub> equiv/m <sup>2</sup>		Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Focus E	3,66	



### Circularity

Minimum post-consumer recycled content	55%
Recyclability	Fully recyclable



### Fire safety

Country	Fire standard	Class	The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.
Europe	EN 13501-1	A2-s1,d0	



### Humidity Resistance

Class C, relative humidity 95% and 30°C, according to EN 13964:2014



### Visual appearance

White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.



### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



### Accessibility

The tiles are easily demountable. Minimum demounting depth according to installation diagrams.



### Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.



### System weight

	kg/m <sup>2</sup>	Weight information is indicative and subject to variation.
Focus E	2,0	
Focus E + Connect grid system	2,9	



### **Mechanical properties**

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See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at [www.ecophon.com](http://www.ecophon.com).

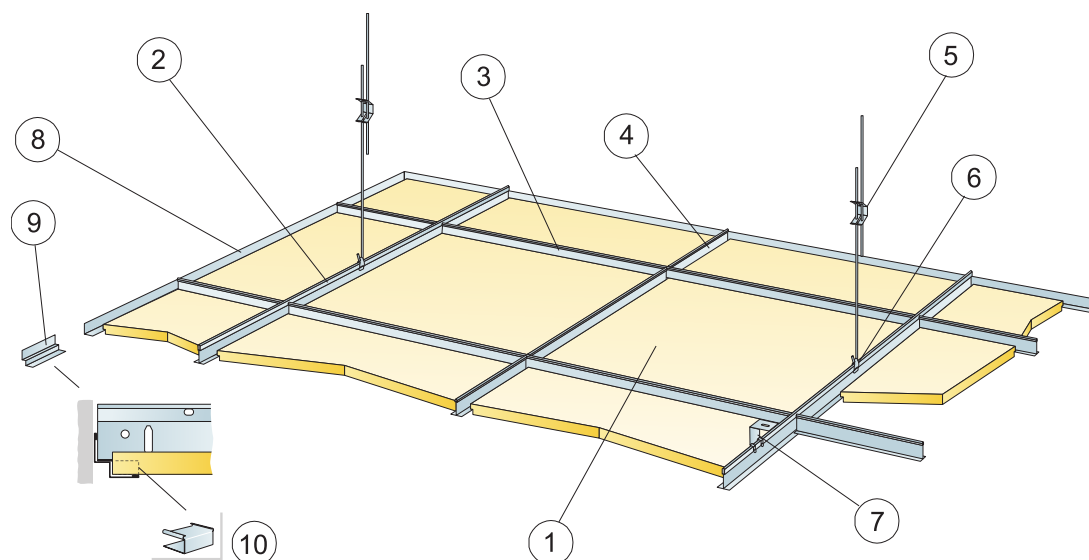


### **CE**

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Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

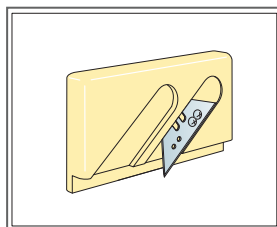
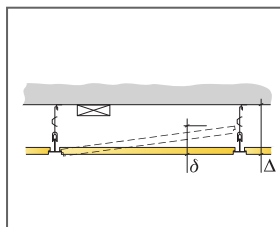
## INSTALLATION DIAGRAM (M12) FOR ECOPHON FOCUS E



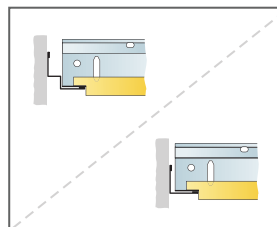
© Ecophon Group

## QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm		
	600x600	1200x600	1200x1200
1 Focus E	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>	0,7/m <sup>2</sup>
2 Connect T24 or T15 Main runner, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall).	0,9m/m <sup>2</sup>	0,9m/m <sup>2</sup>	0,9m/m <sup>2</sup>
3 Connect T24 or T15 Cross tee, L=1200 mm	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>	0,9m/m <sup>2</sup>
4 Connect T24 or T15 Cross tee, L=600 mm	0,9m/m <sup>2</sup>	-	-
5 Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
6 Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
7 For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
8 Connect Angle trim, fixed at 300 mm centres	as required	as required	as required
9 Connect Shadow-line trim, fixed at 300 mm centres	as required	as required	as required
10 Connect E-plug (for Shadow-line trim)	as required	as required	as required
Δ Min. overall depth of system, with adjustable hanger: 110 mm, with direct bracket: 60 mm.	-	-	-
δ Min. demounting depth: 120 mm, (1200x1200 mm, T15: 160 mm)	-	-	-
For luminaire integration in panels use Connect Bridging	-	-	-



Connect Cutting tool E

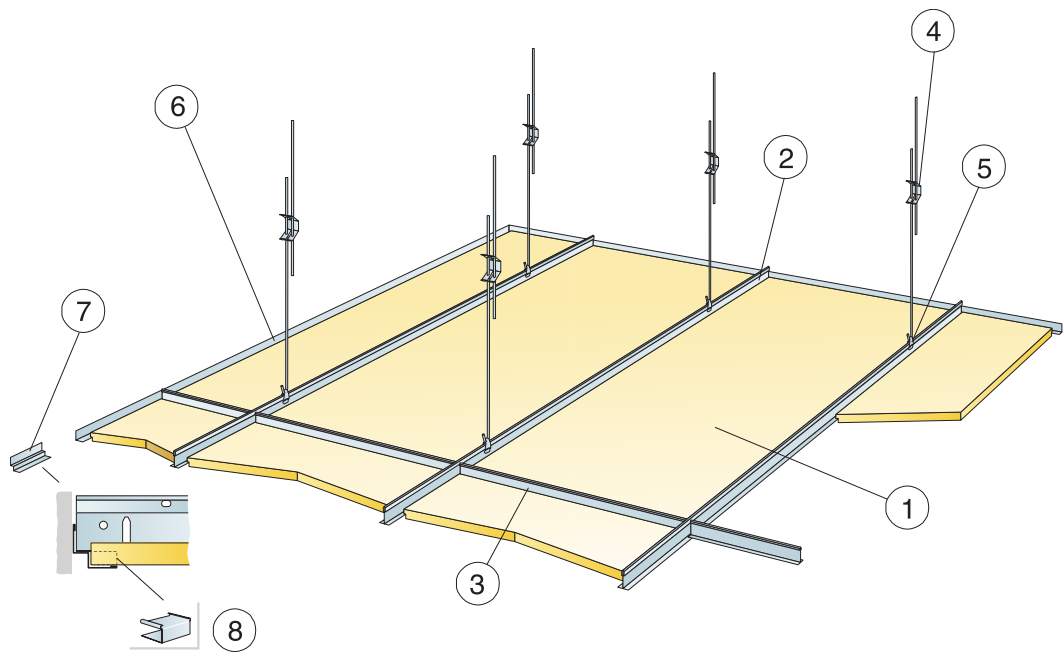


Regular rebate with angle trim and T-profile on foot of shadow-line trim.

Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x20	50	160
1200x600x20	50	160
1200x1200x20	50	160

Live load/load bearing capacity

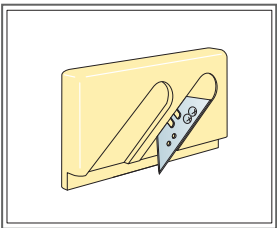
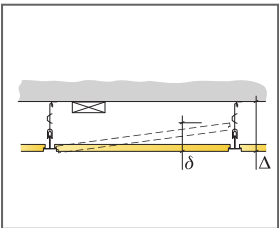
INSTALLATION DIAGRAM (M47) FOR ECOPHON FOCUS E XL



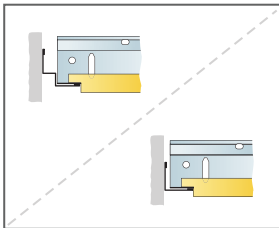
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm			
	1600x600	1800x600	2000x600	2400x600
1 Focus E	1,05/m <sup>2</sup>	0,95/m <sup>2</sup>	0,85/m <sup>2</sup>	0,7/m <sup>2</sup>
2 Connect T24 Main runner, installed at 600 mm centres	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>
3 Connect T24 Cross tee, L=600 mm	0,65m/m <sup>2</sup>	0,6m/m <sup>2</sup>	0,5m/m <sup>2</sup>	0,45m/m <sup>2</sup>
4 Connect Adjustable hanger, installed at 1500 mm centres (max. distance from wall 450 mm)	1,1/m <sup>2</sup>	1,1/m <sup>2</sup>	1,1/m <sup>2</sup>	1,1/m <sup>2</sup>
5 Connect Hanger clip	1,1/m <sup>2</sup>	1,1/m <sup>2</sup>	1,1/m <sup>2</sup>	1,1/m <sup>2</sup>
6 Connect Angle trim, fixed at 300 mm centres	as required	as required	as required	as required
7 Connect Shadow-line trim, fixed at 300 mm centres	as required	as required	as required	as required
8 Connect Eplug (for Shadow-line trim)	as required	as required	as required	as required
Δ Min. overall depth of system: 110 mm	-	-	-	-
δ Minimum demounting depth: 110 mm	-	-	-	-



Cutting tool E 0221

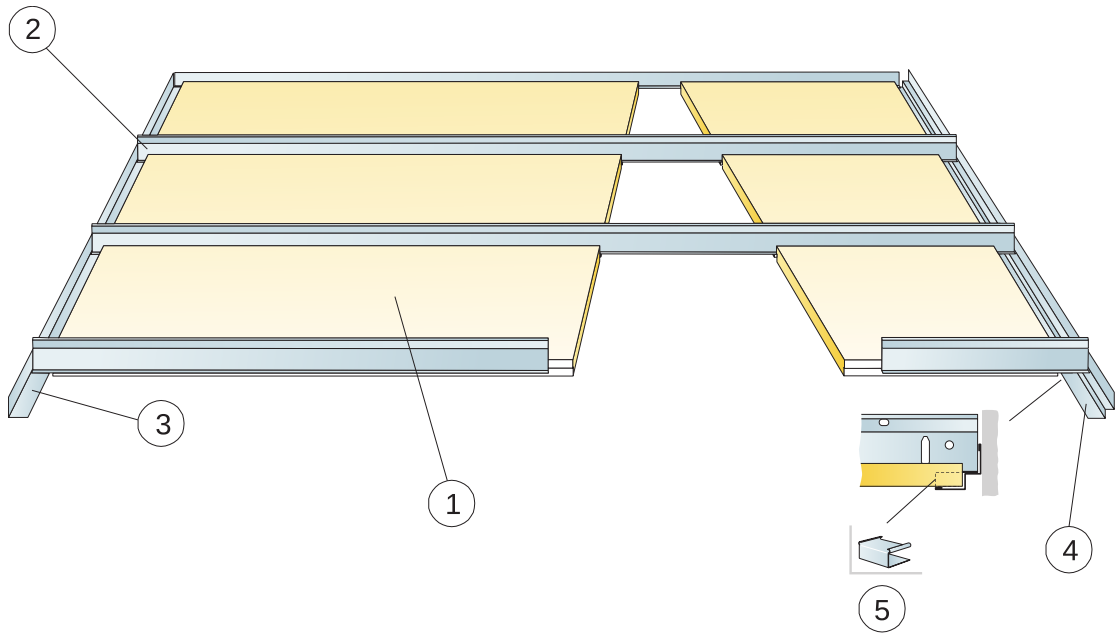


Tegular rebate with angle trim and T-profile on foot of shadow-line trim.

Size, mm	Max live load [N]	Min load bearing capacity [N]
1600x600x20	50	160
1800x600x20	50	160
2000x600x20	50	160
2400x600x20	50	160

Live load/load bearing capacity

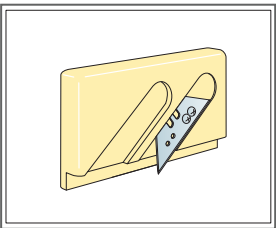
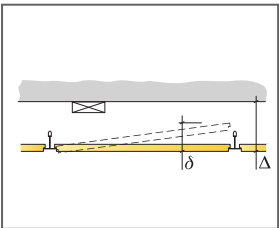
INSTALLATION DIAGRAM (M49) FOR ECOPHON FOCUS E XL IN CORRIDORS



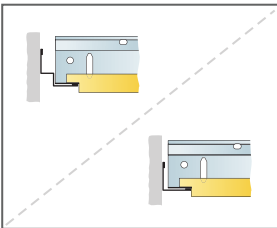
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm			
	1600x600	1800x600	2000x600	2400x600
1 Focus E	1,05/m <sup>2</sup>	0,95/m <sup>2</sup>	0,85/m <sup>2</sup>	0,7/m <sup>2</sup>
2 Connect T24 Corridor profile, installed at 600 mm centres	1,05/m <sup>2</sup>	0,95/m <sup>2</sup>	0,85/m <sup>2</sup>	0,7/m <sup>2</sup>
3 Connect Angle trim, fixed at 200 mm centres	as required	as required	as required	as required
4 Connect Shadow-line trim, fixed at 200 mm centres	as required	as required	as required	as required
5 Connect E-plug (for Shadow-line trim)	as required	as required	as required	as required
Δ Min. overall depth of system: 50 mm	-	-	-	-
δ Min. demounting depth: 75 mm	-	-	-	-



Cutting tool E 0221



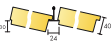
Tegular rebate with angle trim and T-profile on foot of shadow-line trim.

Size, mm	Max live load [N]	Min load bearing capacity [N]
1600x600x20	40	-
1800x600x20	20	-
2000x600x20	10	-
2400x600x20	0	-

Live load/load bearing capacity

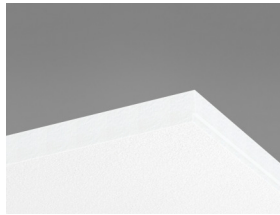
# Ecophon Focus™ Ez

Ecophon Focus™ Ez has a recessed visible grid with diagonal edge design, creating a new design feature to the ceiling. For applications with high demands on good acoustics and speech intelligibility.

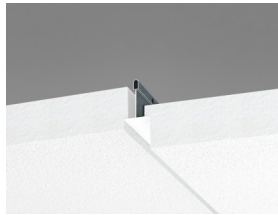


## SYSTEM RANGE

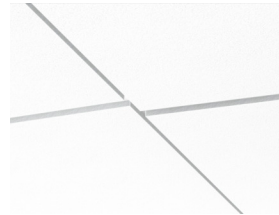
Size, mm	600x600
T24	•
Thickness	40
Inst. Diagr.	M393



Focus Ez tile



Section of Focus Ez system with Connect T24



Focus Ez system with Connect T24

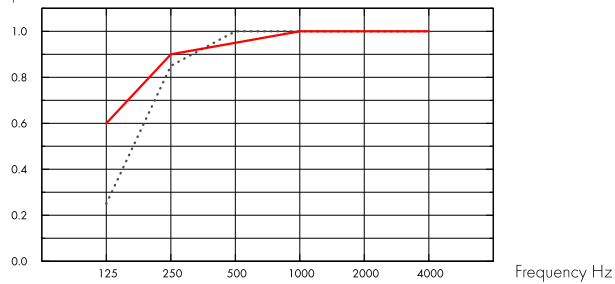
## Acoustic



### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

$\alpha_p$ , Practical sound absorption coefficient



.... Focus Ez 40 mm, 60 mm o.d.s.  
 — Focus Ez 40 mm, 200 mm o.d.s.  
 o.d.s = overall depth of system

THK mm	o.d.s. mm	$\alpha_p$ , Practical sound absorption coefficient						$\alpha_w$	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
40	60	0.25	0.85	1.00	1.00	1.00	1.00	1.00	A
40	200	0.60	0.90	0.95	1.00	1.00	1.00	1.00	A

THK mm	o.d.s. mm	NRC	SAA
40	60	1.00	0.99
40	200	1.00	0.97

THK mm	AC[1.5] Articulation Class, ASTM E1111, ASTM E1110	$D_{nfw}$ Weighted normalized flanking level difference, ISO 10848-2	CAC dB Ceiling Attenuation Class, ASTM 1414, ASTM E413
40	200	29	31

## Indoor Air Quality



Certificate / Label	
Eurofins Indoor Air Comfort®	IAC Gold
French VOC	A+



### Cradle to Cradle Certified®



This product is Cradle to Cradle Certified® at Bronze level (version 4.0).





## Material Health

This product has received a C2C Certified Material Health Certificate™ at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate™ is a verification of the health and safety of a product's composition using the Material Health requirements of the Cradle-to-Cradle Certified Product Standard.



## Carbon footprint

kg CO <sub>2</sub> equiv/m <sup>2</sup>		Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Focus Ez	5,9	



## Circularity

Minimum post-consumer recycled content	62%
Recyclability	Fully recyclable



## Fire safety

Country	Fire standard	Class	The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.
Europe	EN 13501-1	A2-s1,d0	



## Humidity Resistance

Class C, relative humidity 95% and 30°C, according to EN 13964:2014



## Visual appearance

White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.



## Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



## Accessibility

The tiles are easily demountable. Minimum demounting depth according to installation diagrams.



## Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.



## System weight

	kg/m <sup>2</sup>	Weight information is indicative and subject to variation.
Focus Ez	3,5	
Focus Ez + Connect grid system	4,5	



### **Mechanical properties**

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See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at [www.ecophon.com](http://www.ecophon.com).

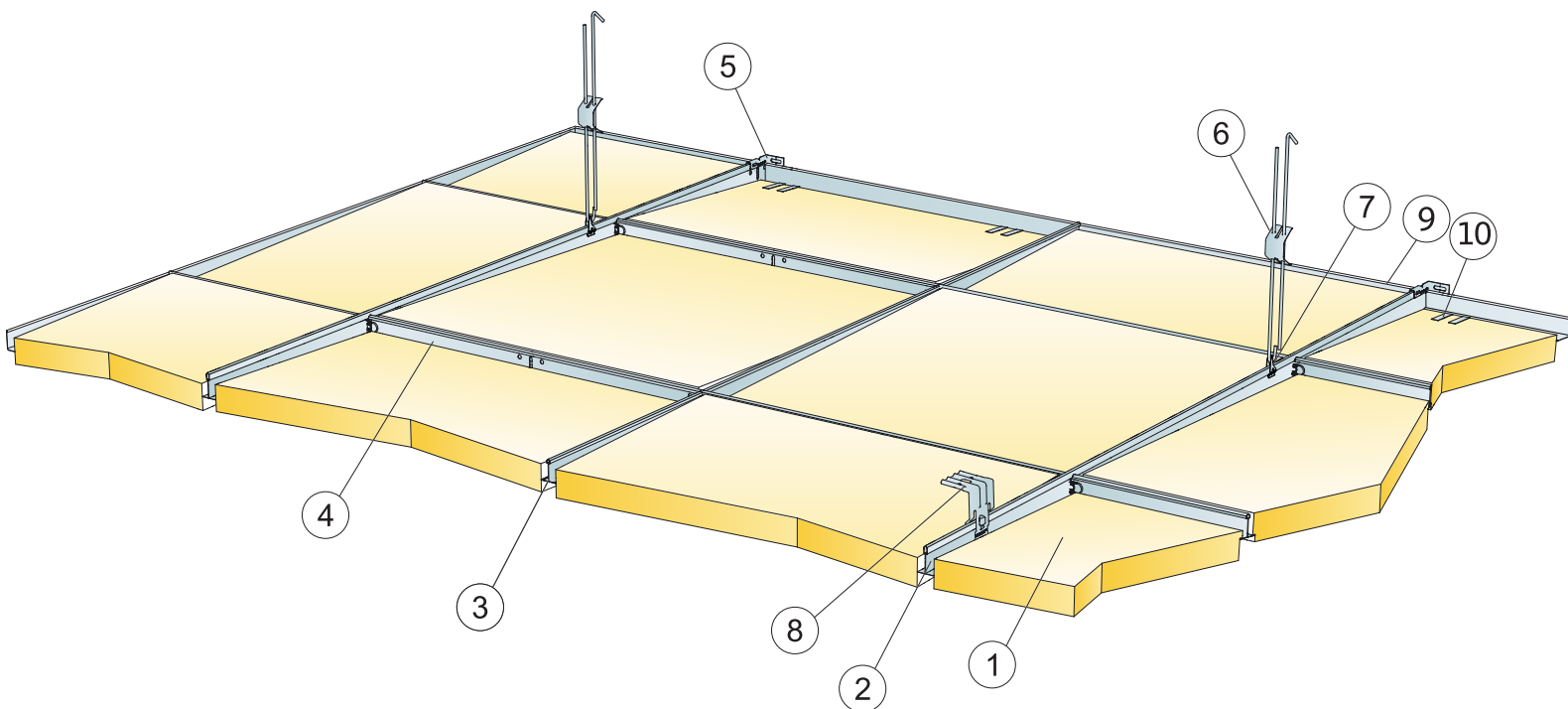


### **CE**

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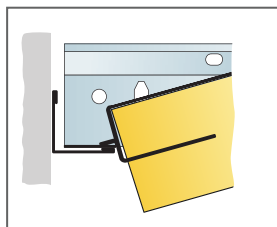
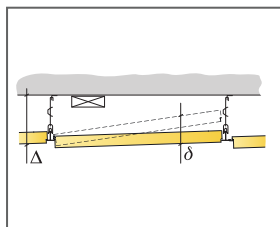
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

## INSTALLATION DIAGRAM (M393) FOR ECOPHON FOCUS EZ

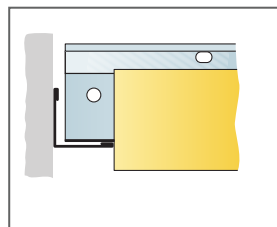


## QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm
	<b>600x600</b>
1 Focus Ez	2,8/m <sup>2</sup>
2 Connect T24 Main runner, installed at 1200 mm centres (max. distance from wall 600 mm, can be extended up to 1200 mm if no live load between Main runner and wall).	0,9m/m <sup>2</sup>
3 Connect T24 Cross tee, L=1200 mm, installed at 600 mm centres	1,7m/m <sup>2</sup>
4 Connect T24 Cross tee, L=600 mm	0,9m/m <sup>2</sup>
5 Connect Wall Bracket for T-profiles	1/suspended row of Main runner
6 Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m <sup>2</sup>
7 Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m <sup>2</sup>
8 For direct installation: Connect Direct Bracket, installed at 1200 mm centres	0,7/m <sup>2</sup>
9 Connect Angle trim, fixed at 300 mm centres	as required
10 Connect Support clip DG25	2/300-400mm on any cut edge
$\Delta$ Min. overall depth of system, with Adjustable hanger: 110 mm, with Direct bracket: 80 mm.	
$\delta$ Min. demounting depth: 80 mm	



Cut edge with Connect Support clip Dg25



Wall connection non-supported edge

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600x40	40	160

Live load/load bearing capacity

# Ecophon Focus™ F

Ecophon Focus™ F installs directly to an existing plaster ceiling, boarding, battens or concrete, to create a ceiling with a smooth appearance. For applications requiring a ceiling mechanically secured to the structural soffit.

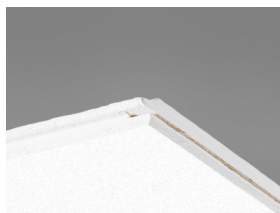


Ten Con Ten, Madrid, Spain

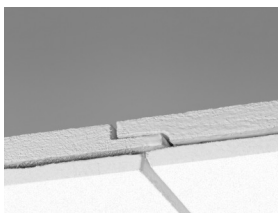
## SYSTEM RANGE



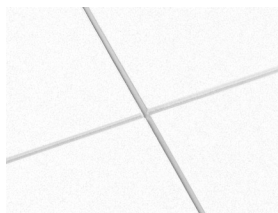
Size, mm	600x600	1200x600
Direct	•	•
Thickness	20	20
Inst. Diagr.	M15	M15



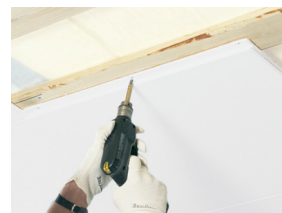
Focus F tile



Section of Focus F system



Focus F system



Focus F is installed by screw fixing

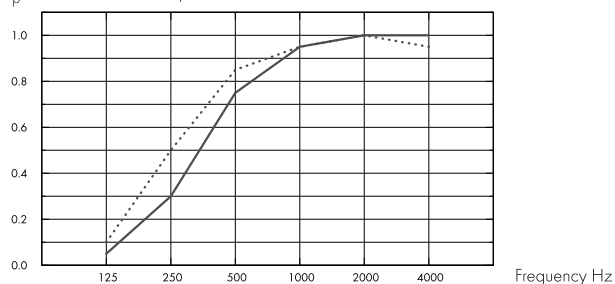


## Acoustic

### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

$\alpha_p$ , Practical sound absorption coefficient



— Focus F 20 mm, 20 mm o.d.s.

.... Focus F 20 mm, 40 mm o.d.s.

o.d.s = overall depth of system

THK mm	o.d.s. mm	$\alpha_p$ , Practical sound absorption coefficient						$\alpha_w$	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
20	20	0.05	0.30	0.75	0.95	1.00	1.00	0.60	C
20	40	0.10	0.50	0.85	0.95	1.00	0.95	0.80	B

THK mm	o.d.s. mm	NRC	SAA
20	20	0.75	0.76
20	40	0.85	0.82



## Indoor Air Quality

Certificate / Label	
Eurofins Indoor Air Comfort®	IAC Gold
French VOC	A+



## Cradle to Cradle Certified®



This product is Cradle to Cradle Certified® at Bronze level (version 4.0).



## Material Health

This product has received a C2C Certified Material Health Certificate™ at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate™ is a verification of the health and safety of a product's composition using the Material Health requirements of the Cradle-to-Cradle Certified Product Standard.



## Carbon footprint

kg CO <sub>2</sub> equiv/m <sup>2</sup>		Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Focus F	4,90	



## Circularity

Minimum post-consumer recycled content	59%
Recyclability	Fully recyclable



## Fire safety

Country	Fire standard	Class	The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.
Europe	EN 13501-1	A2-s1,d0	



## Humidity Resistance

Class C, relative humidity 95% and 30°C, according to EN 13964:2014



## Visual appearance

White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.



## Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



## Accessibility

The tiles are non-demountable.



## Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. For best result the surface should be even, however an acceptable result could be achieved on slightly uneven surfaces. If very uneven surfaces – installation of furring (evenly spaced timber battens) as the substrate for the tiles is recommended.



## System weight

kg/m <sup>2</sup>		Weight information is indicative and subject to variation.
Focus F	2,3	



## Mechanical properties

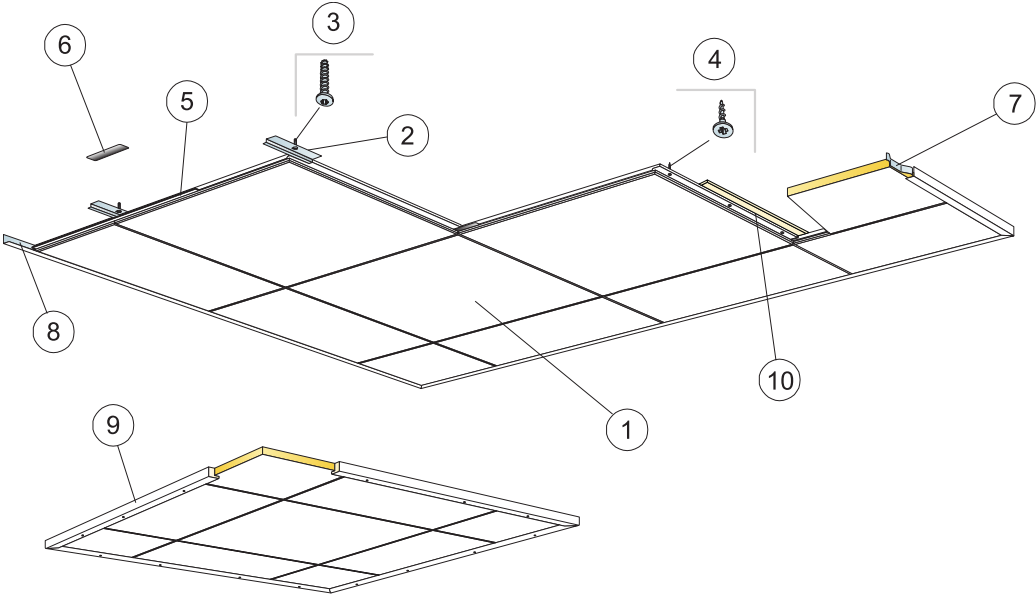
Additional live load has to be fixed to the soffit.



## CE

Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

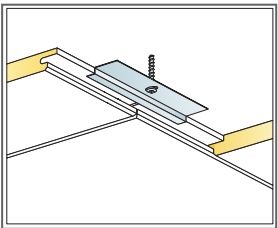
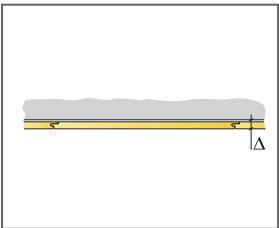
INSTALLATION DIAGRAM (M15) FOR ECOPHON FOCUS F



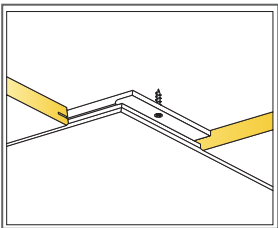
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm	
	600x600	1200x600
1 Focus F	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>
2 Connect Direct fixing plate F, installed at 600 mm centres (for use in concrete)	2,8/m <sup>2</sup>	2,8/m <sup>2</sup>
3 Connect Anchor screw, installed at 600 mm centres (for use in concrete)	2,8/m <sup>2</sup>	2,8/m <sup>2</sup>
4 Connect Installation screw MVL (for use in plasterboard or timber) (1000 pcs)	8,3/m <sup>2</sup>	7/m <sup>2</sup>
5 Not required in the United Kingdom	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>
6 Connect Spline, L=150 mm	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>
7 Connect Wall spring spacer	1/panel in the last row	2/panel in the last row
8 Connect Angle trim, fixed at 300 mm centres	as required	as required
9 For use when installing floating ceilings: Connect Wood trim 2561, L=2500 mm, fixed at 500 mm centres	as required	as required
10 Timber installed at 600 mm centres (300 mm if thermal insulation is placed above), with the screw fixings along the timber.	as required	as required
Δ Min. overall depth of system: 20 mm	-	-
δ Min. demounting depth: The system is non-demountable	-	-



Installation in concrete



Installation in plasterboard or timber

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600x20	-	-
1200x600x20	-	-

Live load/load bearing capacity

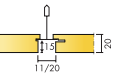
# Ecophon Focus™ Lp

Ecophon Focus™ Lp has a semi-concealed grid system used for highlighting direction in a room. Features a wide gap between tiles in the emphasised direction and a narrow gap in the other. The system consists of standard Focus™ Lp tiles and Focus™ Lp Technical tiles.



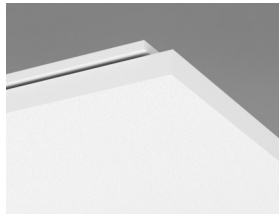
Kuopio Courthouse, Finland

## SYSTEM RANGE

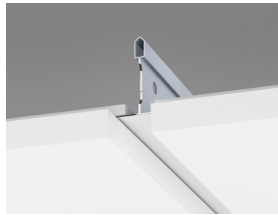
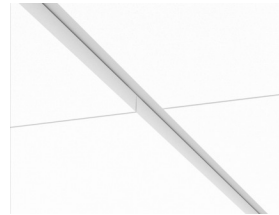


Size, mm	600x150	600x300	600x600	1200x150	1200x300	1200x600	XL 1800x600
T24	•	•	•	•	•	•	•
Thickness	20	20	20	20	20	20	20
Inst. Diagr.	M391	M390, M391	M390, M391	M391	M390, M391	M390, M391	M392

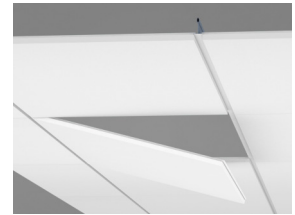




Focus Lp tile

Section of Focus Lp system with  
Connect T24 main-runner

Focus Lp system



Dismounting of tile

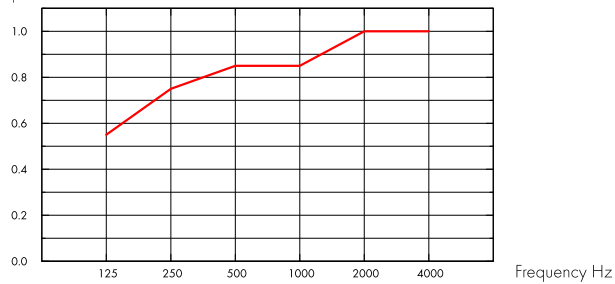


## Acoustic

### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

$\alpha_p$ , Practical sound absorption coefficient



— Focus Lp 20 mm, 200 mm o.d.s.  
o.d.s = overall depth of system

THK mm	o.d.s. mm	$\alpha_p$ , Practical sound absorption coefficient						$\alpha_w$	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
20	200	0.55	0.75	0.85	0.85	1.00	1.00	0.90	A

THK mm	o.d.s. mm	NRC	SAA
20	200	0.85	0.87
20	400	0.80	0.82

THK mm	AC(1.5)	$D_{nfw}$	CAC dB
	Articulation Class, ASTM E1111, ASTM E1110	Weighted normalized flanking level difference, ISO 10848-2	Ceiling Attenuation Class, ASTM 1414, ASTM E413
20	180	24	25



## Indoor Air Quality

Certificate / Label	
Euofins Indoor Air Comfort®	IAC Gold
French VOC	A+



## Cradle to Cradle Certified®



This product is Cradle to Cradle Certified® at Bronze level (version 4.0).



## Material Health

This product has received a C2C Certified Material Health Certificate™ at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate™ is a verification of the health and safety of a product's composition using the Material Health requirements of the Cradle-to-Cradle Certified Product Standard.



## Carbon footprint

kg CO <sub>2</sub> equiv/m <sup>2</sup>		Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804
Focus Ip	4,66	



## Circularity

Minimum post-consumer recycled content	57%
Recyclability	Fully recyclable



## Fire safety

Country	Fire standard	Class	The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.
Europe	EN 13501-1	A2-s1,d0	



## Humidity Resistance

Class C, relative humidity 95% and 30°C, according to EN 13964:2014



## Visual appearance

White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.



## Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



## Accessibility

The tiles are easily demountable. Minimum demounting depth according to installation diagrams.



## Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. The systems are not recommended for small rooms (approximately 2x2 m2). Ceilings with a large amount of integrations require careful planning, design and installation.



## System weight

	kg/m <sup>2</sup>	Weight information is indicative and subject to variation.
Focus Ip	2,4	
Focus Ip + Connect grid system	3,4	



## Mechanical properties

See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at [www.ecophon.com](http://www.ecophon.com). For the Technical tiles installed according to M391 there is a load bearing capacity of 70 N for each

Main runner per 1200 mm. This gives a total load bearing capacity of 140 N for a load evenly distributed on two Main runners.

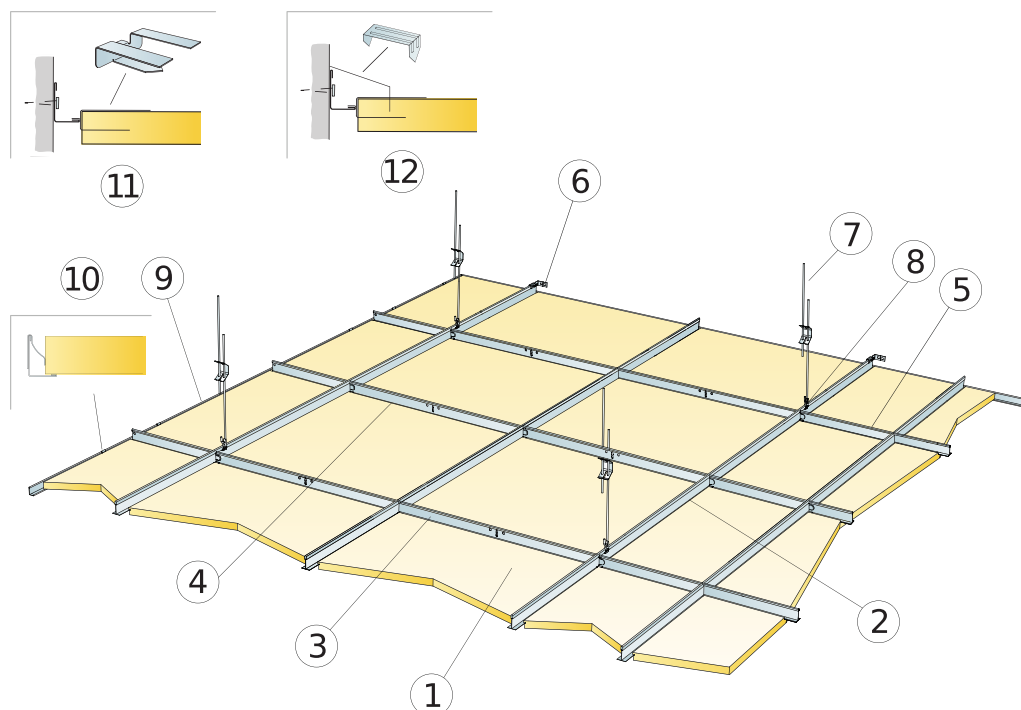


#### **CE**

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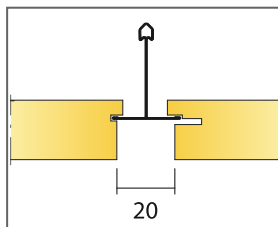
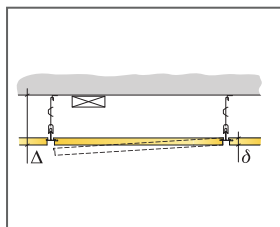
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

## INSTALLATION DIAGRAM (M390) FOR ECOPHON FOCUS LP

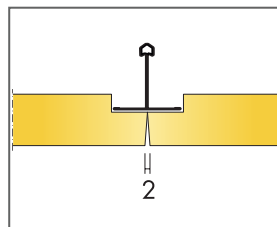


## QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm			
	600x300	600x600	1200x300	1200x600
1 Focus Lp	5,6/m <sup>2</sup>	2,8/m <sup>2</sup>	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>
2 Connect T24 Main runner, installed at 1200 mm centres (max distance from wall 600 mm)	0,9m/m <sup>2</sup>	0,9m/m <sup>2</sup>	0,9m/m <sup>2</sup>	0,9m/m <sup>2</sup>
3 Connect T24 Cross tee L=1200 mm	3,4m/m <sup>2</sup>	1,7m/m <sup>2</sup>	3,4m/m <sup>2</sup>	1,7m/m <sup>2</sup>
4 Connect T24 Cross tee, L=600 mm	-	0,9m/m <sup>2</sup>	-	-
5 Connect T24 Cross tee, L=300 mm	0,9m/m <sup>2</sup>	-	-	-
6 Connect Wall Bracket for T-profiles	1/suspended row of Main runner			
7 Connect Adjustable Hanger, installed at 1200 mm centres (max. distance from wall 600 mm)	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
8 Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>	0,7/m <sup>2</sup>
9 Connect Angle trim, fixed at 300 mm centres	as required	as required	as required	as required
10 Connect Wall spring	2 pcs/on every cut perimeter tile with only 1 supporting edge			
11 Connect Support clip Dg20	2per perimeter tile, cut on the long side	2per perimeter tile, cut on the long side	3per perimeter tile, cut on the long side	3per perimeter tile, cut on the long side
12 Connect Perimeter tile clip	1/300-400mm on any cut edge			
Δ Min. overall depth of system: 115 mm	-	-	-	-
δ Min. demounting depth: 20 mm	-	-	-	-
For luminaire integration in panels use Connect Bridging	-	-	-	-



Distance between Focus Lp tiles

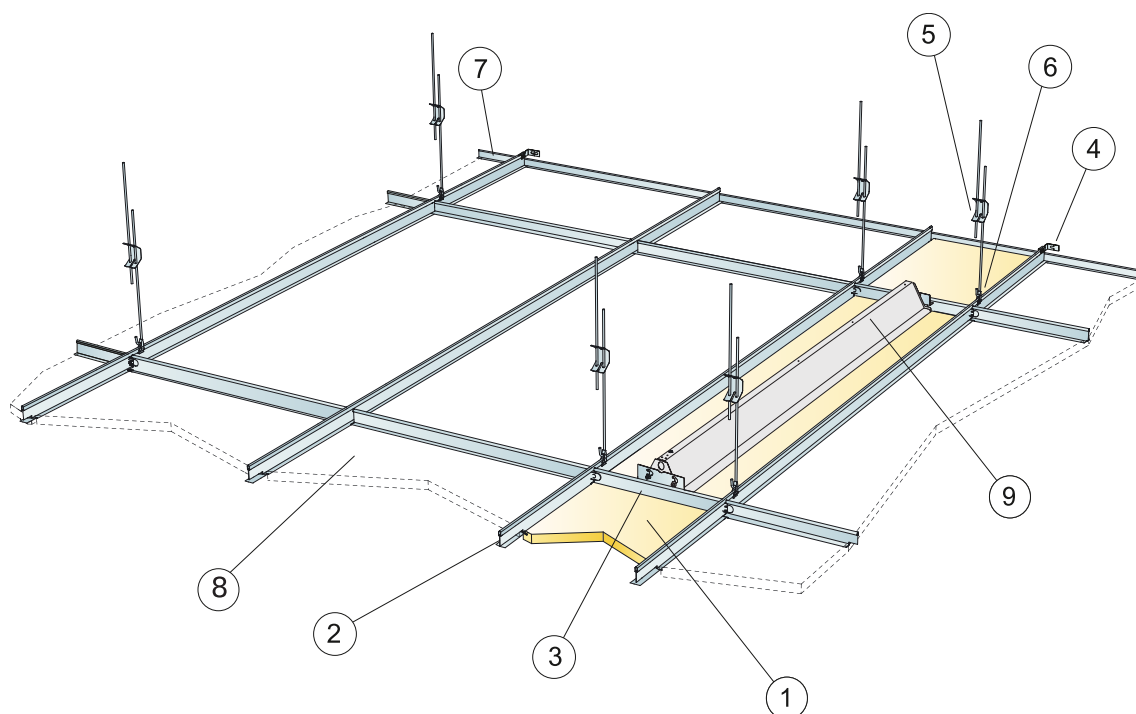


Non-supported edges meeting with space for cross-tee.

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x300x20	30	160
600x600x20	30	160
1200x300x20	30	160
1200x600x20	30	160

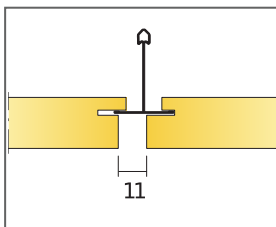
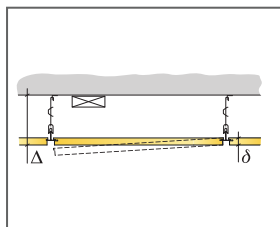
Live load/load bearing capacity

## INSTALLATION DIAGRAM (M391) FOR ECOPHON FOCUS LP TECHNICAL TILE

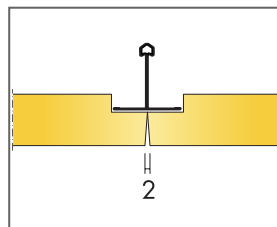


## QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm					
	600x150	600x300	600x600	1200x150	1200x300	1200x600
1 Focus Lp Technical tile	11,1/m <sup>2</sup>	5,6/m <sup>2</sup>	2,8/m <sup>2</sup>	5,6/m <sup>2</sup>	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>
2 Connect T24 Main runner	6,7m/m <sup>2</sup>	3,35m/m <sup>2</sup>	1,7m/m <sup>2</sup>	6,7m/m <sup>2</sup>	3,35m/m <sup>2</sup>	1,7m/m <sup>2</sup>
3 Connect T24 Cross tee, L=150/300/600 mm	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>	1,7m/m <sup>2</sup>	0,85m/m <sup>2</sup>	0,85m/m <sup>2</sup>	0,85m/m <sup>2</sup>
4 Connect Wall Bracket for T-profiles	1/suspended row of Main runner					
5 Connect Adjustable hanger (max. distance from wall 600 mm)	5,6/m <sup>2</sup>	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>	5,6/m <sup>2</sup>	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>
6 Connect Hanger clip	5,6/m <sup>2</sup>	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>	5,6/m <sup>2</sup>	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>
7 Connect Angle trim, fixed at 300 mm centres	as required	as required	as required	as required	as required	as required
8 Focus Lp (adjacent ceiling)	-	-	-	-	-	-
9 Ecophon Line Lp	-	-	-	-	-	-
Δ Min. overall depth of system: 105 mm (190 mm when using Connect Space bar connector)	-	-	-	-	-	-
δ Min. demounting depth: 20 mm	-	-	-	-	-	-
For luminaire integration in panels use Connect Bridging	-	-	-	-	-	-
The area in quantity specification for M279 refers to the installation area between the two suspended Main runners. Maximum two rows of Technical tiles can be installed next to each other.	-	-	-	-	-	-
For integration with a continuous luminaire, width < 300 mm use Connect Spacebar connector, max height 75 mm	-	-	-	-	-	-



Distance between Focus Lp and Focus Lp Technical tile

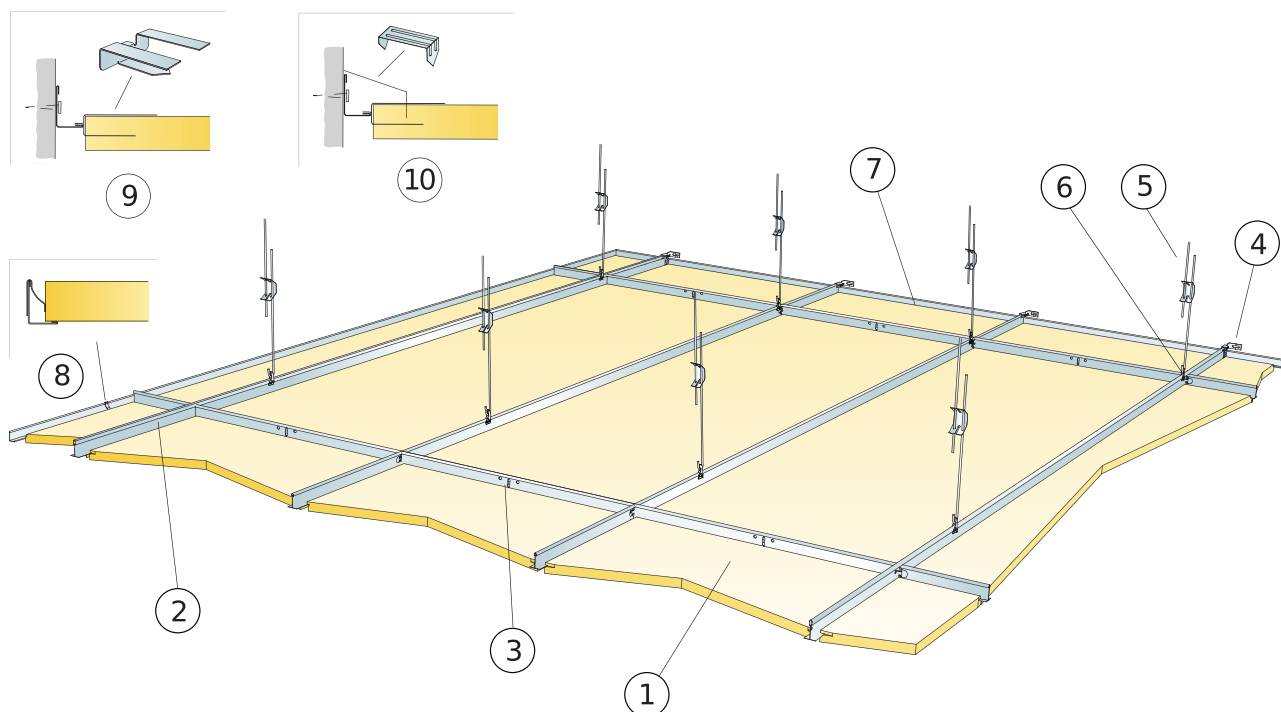


Non-supported edges meeting with space for cross-tee.

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x150x20	50	160
600x300x20	50	160
600x600x20	50	160
1200x150x20	50	160
1200x300x20	50	160
1200x600x20	50	160

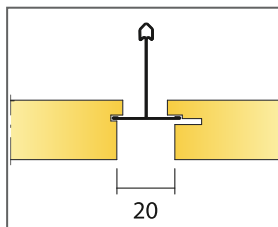
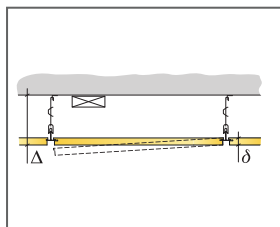
Live load/load bearing capacity

## INSTALLATION DIAGRAM (M392) FOR ECOPHON FOCUS LP XL

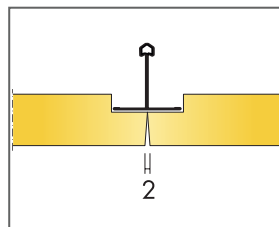


## QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		1800x600
1	Focus Lp	0,95/m <sup>2</sup>
2	Connect T24 Main runner, installed at 600 mm centres	1,7m/m <sup>2</sup>
3	Connect T24 Cross tee, L=600 mm	0,6m/m <sup>2</sup>
4	Connect Wall Bracket for T-profiles	1/suspended row of Main runner
5	Connect Adjustable hanger, installed at 1500 mm centres (max. distance from wall 450 mm)	1,1/m <sup>2</sup>
6	Connect Hanger Clip (not to be used in swimming hall environments)	0,7/m <sup>2</sup>
7	Connect Angle trim, fixed at 300 mm centres	as required
8	Connect Wall spring	3pcs/on every cut perimeter tile with only 1 supporting edge
9	Connect Support clip Dg20	4per perimeter tile, cut on the long side
10	Connect Perimeter tile clip	1/300-400mm on any cut edge
Δ Min. overall depth of system: 115 mm		-
δ Min. demounting depth: 20 mm		-
For luminaire integration in panels use Connect Bridging		-



Distance between Focus Lp tiles



Non-supported edges meeting with space for cross-tee.

Size, mm	Max live load [N]	Min load bearing capacity [N]
1800x600x20	50	160


Live load/load bearing capacity

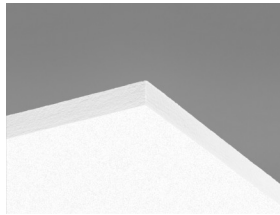
# Ecophon Focus™ SQ

Ecophon Focus™ SQ bonds directly to the soffit surface. Tiles are installed with a gap between each tile, creating a ceiling with a smooth appearance. For applications where the minimum possible overall depth of system is required due to limited space or other reason.

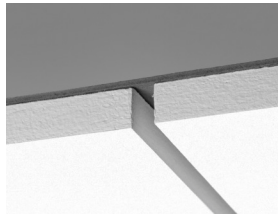


## SYSTEM RANGE

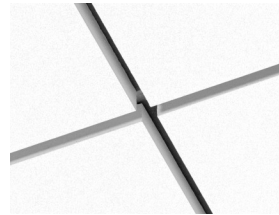
	Size, mm	600x600	1200x600
	Direct	•	•
	Thickness	20	20
	Inst. Diagr.	M107	M107



Focus SQ tile



Section of Focus SQ system



Focus SQ system

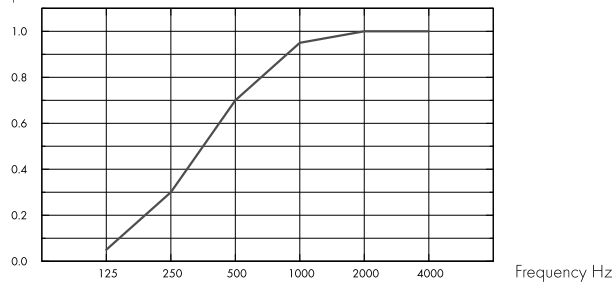


## Acoustic

### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

$\alpha_p$ , Practical sound absorption coefficient



— Focus SQ 20 mm, 23 mm o.d.s.  
o.d.s = overall depth of system

THK mm	o.d.s. mm	$\alpha_p$ , Practical sound absorption coefficient						$\alpha_w$	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
20	23	0.05	0.30	0.70	0.95	1.00	1.00	0.60	C

THK mm	o.d.s. mm	NRC	SAA
20	23	0.75	0.75

THK mm	AC[1.5] Articulation Class, ASTM E1111, ASTM E1110
20	190



## Indoor Air Quality

Certificate / Label	
Eurofins Indoor Air Comfort®	IAC Gold
French VOC	A+



## Cradle to Cradle Certified®



This product is Cradle to Cradle Certified® at Bronze level (version 4.0).



## Material Health

This product has received a C2C Certified Material Health Certificate™ at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate™ is a verification of the health and safety of a product's composition using the Material





### Carbon footprint

kg CO <sub>2</sub> equiv/m <sup>2</sup>	
Focus SQ	4,88

Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804



### Circularity

Minimum post-consumer recycled content	57%
Recyclability	Fully recyclable



### Fire safety

Country	Fire standard	Class
Europe	EN 13501-1	A2-s1,d0

The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.



### Humidity Resistance

Class C, relative humidity 95% and 30°C, according to EN 13964:2014



### Visual appearance

White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.



### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



### Accessibility

The tiles are non-demountable.



### Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. Rendered surfaces must have sufficient strength to be able to carry the load imposed by the tiles. If doubts, test gluing should be carried out. The surface should always be dry and clean. For best result the surface should be even, however an acceptable result could be achieved on slightly uneven surfaces.



### System weight

kg/m <sup>2</sup>	
Focus SQ	2,4

Weight information is indicative and subject to variation.



### Mechanical properties

Additional live load has to be fixed to the soffit.

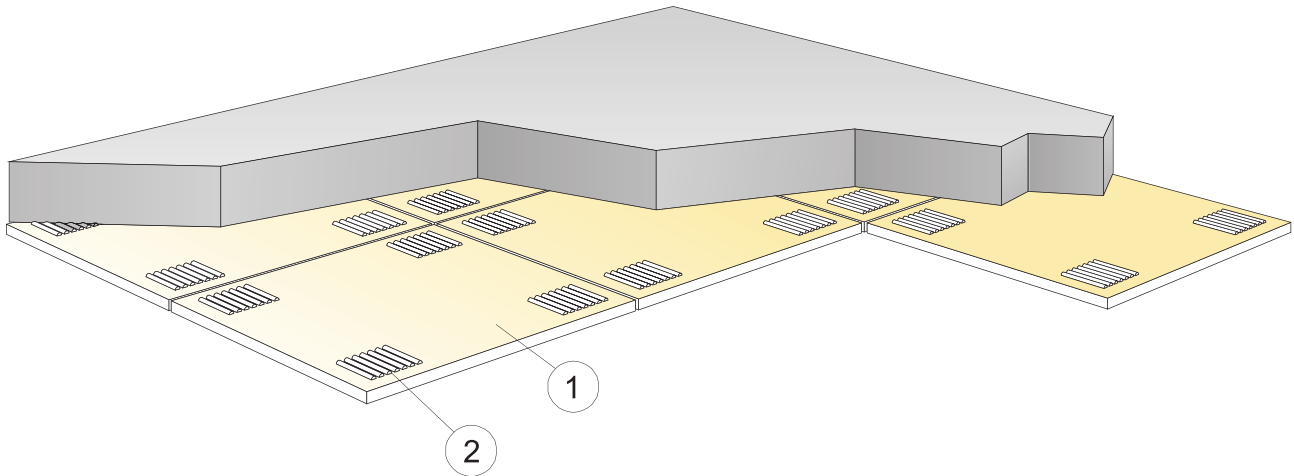


## CE

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Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

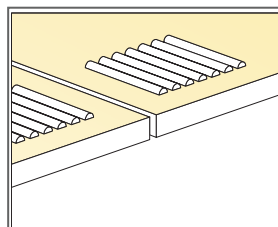
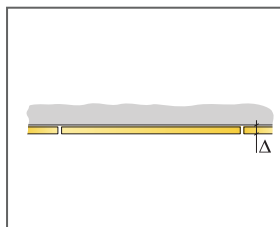
# INSTALLATION DIAGRAM (M107) FOR ECOPHON FOCUS SQ, USING CONNECT ABSORBER GLUE



© Ecophon Group

## QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm	
	600x600	1200x600
1 Focus SQ	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>
2 Connect Absorber glue (0,25 l/m <sup>2</sup> - 0,4 l/m <sup>2</sup> depending on installation conditions) (10 litres)	as required	as required
Use Connect Notched spatula to apply the glue.	-	-
Δ Min. overall depth of system: 23 mm	-	-
δ Min. demounting depth: The system is non-demountable	-	-
Cut visible edges should be painted	-	-
* Panel Module size 600x600 (592x592), 1200x600 (1192x592)	-	-



Application of glue

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600x20	-	-
1200x600x20	-	-

Live load/load bearing capacity

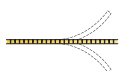
# Ecophon Focus™ Flexiform A

Ecophon Focus™ Flexiform A panels are delivered flat and formed on site into concave or convex form by means of special profiles. Ideal for creating surfaces with special curvatures, or if the dimensions of the installations above the suspended ceiling cannot be accommodated.

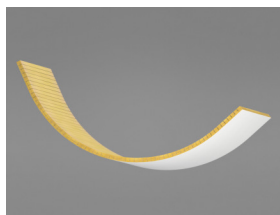


Miejska Sala Widowiskowa Sportowa, Kępno, Poland

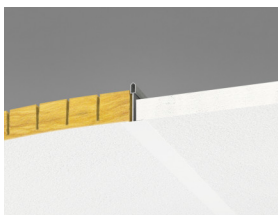
## SYSTEM RANGE



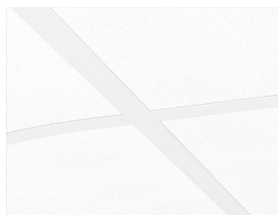
Size, mm	1200x600	1600x600	2000x600	2400x600
T24	•	•	•	•
Thickness	30	30	30	30
Inst. Diag.	M31, M31ec, M31ic	M31, M31ec, M31ic	M31, M31ec, M31ic	M31, M31ec, M31ic



Focus Flexiform A panel



Section of Focus Flexiform A system with Connect T24



Focus Flexiform A system

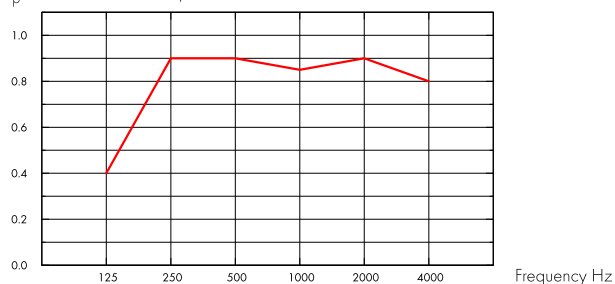


## Acoustic

### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

$\alpha_p$ , Practical sound absorption coefficient



— Focus Flexiform A 30 mm, 200 mm o.d.s.  
o.d.s = overall depth of system

THK mm	o.d.s. mm	$\alpha_p$ , Practical sound absorption coefficient						$\alpha_w$	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
30	200	0.40	0.90	0.90	0.85	0.90	0.80	0.90	A



## Indoor Air Quality

Certificate / Label	
Eurofins Indoor Air Comfort®	IAC Gold
French VOC	A+



## Carbon footprint

	kg CO <sub>2</sub> equiv/m <sup>2</sup>
Focus Flexiform A	3,1

Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804



## Circularity

Minimum post-consumer recycled content	39%
Recyclability	Fully recyclable



## Fire safety

Country	Fire standard	Class
Europe	EN 13501-1	A2-s1,d0

The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.



## Humidity Resistance

Class C, relative humidity 95% and 30°C, according to EN 13964:2014



## Visual appearance

White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.



## Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



## Accessibility

The tiles are non-demountable.



## Installation

Installed according to installation diagrams, installation guides and drawing aid. (Please note: Extreme incident light, near windows or other light sources, can create undesired shadow effects on the structured surface on curved installations.)



## System weight

	kg/m <sup>2</sup>
Focus Flexiform A	1,4
Focus Flexiform A + Connect grid system	2,4

Weight information is indicative and subject to variation.



## Mechanical properties

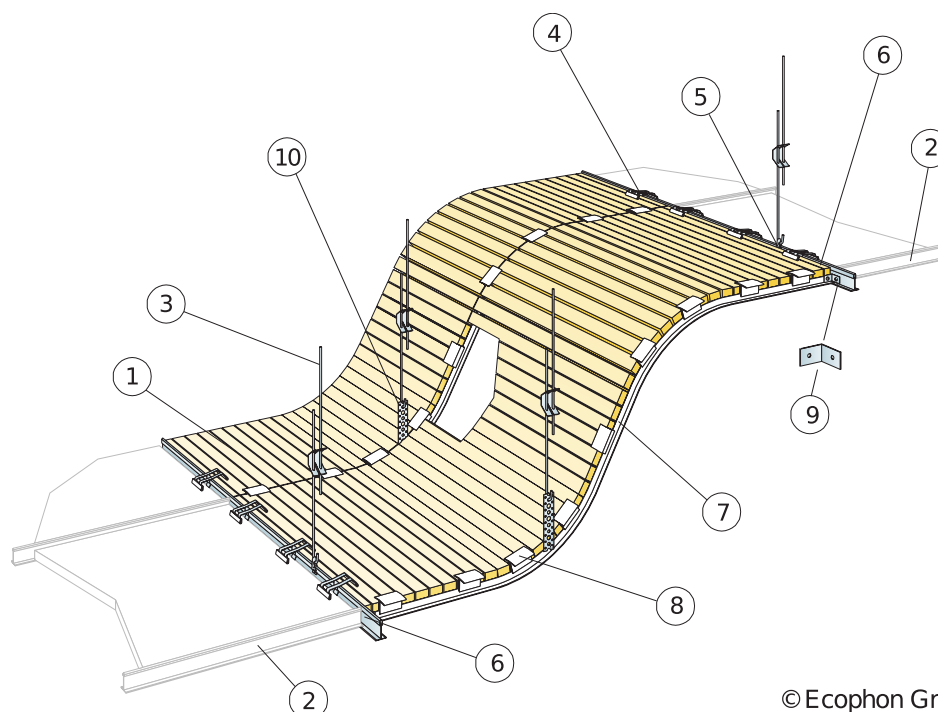
Additional live load has to be fixed to the soffit.



## CE

Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

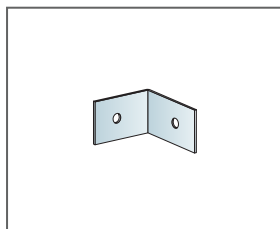
## INSTALLATION DIAGRAM (M31) FOR ECOPHON FOCUS FLEXIFORM A



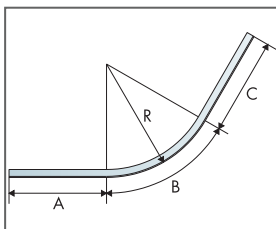
© Ecophon Group

## QUANTITY SPECIFICATION (EXCL. WASTAGE)

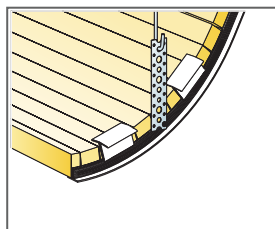
	Size, mm			
	1200x600	1600x600	2000x600	2400x600
1 Focus Flexiform A	as required	as required	as required	as required
2 Connect T24 Cross tee (adjacent ceiling)	as required	as required	as required	as required
3 Connect Adjustable hanger, installed at 1200 mm centres	as required	as required	as required	as required
4 Connect Clip 100/20	as required	as required	as required	as required
5 Connect Hanger clip	as required	as required	as required	as required
6 Connect T24 Main runner	1,8m/m <sup>2</sup>	-	-	-
7 Connect Flexiform profile/Flexible Flexiform profile, installed at 600 mm centres. Radius of curve (concave or convex) min 200 mm. Length of profile: max 2400 mm. When Flexiform profiles are longer than 1 m, intermediate suspension are required.	as required	as required	as required	as required
8 Connect Flexiform clip, fixed at 100-300 mm depending on the radius of curve	as required	as required	as required	as required
9 Connect Angle bracket	as required	as required	as required	as required
10 Perforated strip (not supplied by Ecophon)	as required	as required	as required	as required
Flexiform profile: Radius of curve (concave or convex) min 200 mm.	-	-	-	-
Length of flexiform profile: max 2400 mm. When Flexiform profiles are longer than 1 m, intermediate suspension are required.	-	-	-	-



Connect Angle bracket



Example with dimensions of Flexiform profile

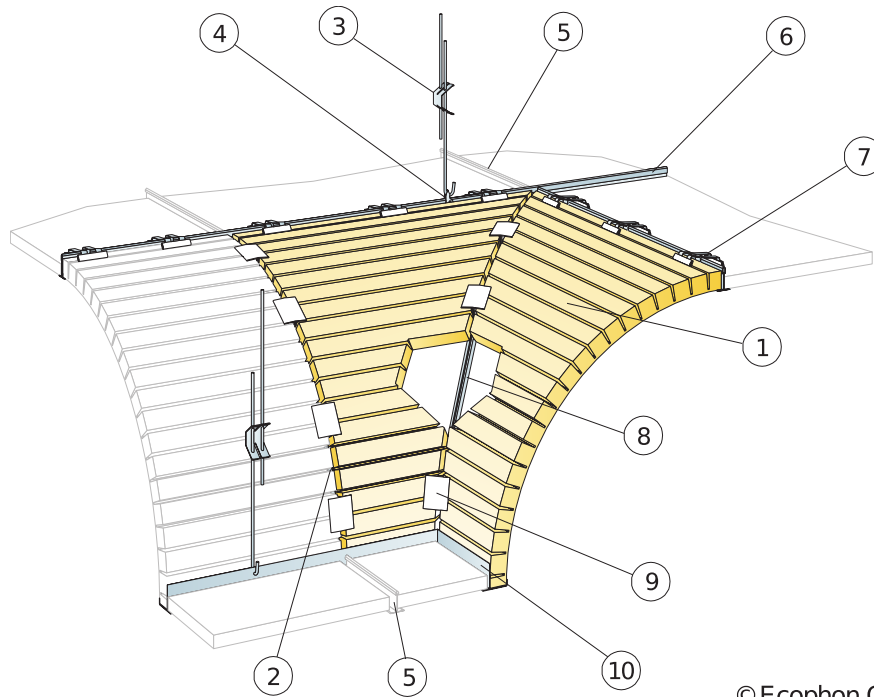


Suspension with metal strip

Size, mm	Max live load [N]	Min load bearing capacity [N]
1200x600x30	0	160
1600x600x30	0	160
2000x600x30	0	160
2400x600x30	0	160

Live load/load bearing capacity

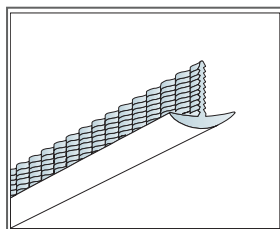
## EXTERNAL CORNER (M31EC) FOR ECOPHON FOCUS FLEXIFORM A



© Ecophon Group

### QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm			
	1200x600	1600x600	2000x600	2400x600
1 Focus Flexiform A	as required	as required	as required	as required
2 Connect Flexiform profile/Flexible Flexiform profile, installed at 600 mm centres. Radius of curve (concave or convex) min 200 mm. Length of profile: max 2400 mm. When Flexiform profiles are longer than 1 m, intermediate suspension are required.	as required	as required	as required	as required
3 Connect Adjustable hanger, installed at 1200 mm centres	as required	as required	as required	as required
4 Connect Hanger clip	as required	as required	as required	as required
5 Connect T24 Cross tee (adjacent ceiling)	as required	as required	as required	as required
6 Connect T24 Main runner	1,8m/m <sup>2</sup>	-	-	-
7 Connect Clip 100/20	as required	as required	as required	as required
8 Connect Flexible external corner profile	as required	as required	as required	as required
9 Connect Flexiform clip, fixed at 100-300 mm depending on the radius of curve	as required	as required	as required	as required
10 Connect F-trim	as required	as required	as required	as required
Flexiform profile: Radius of curve (concave or convex) min 200 mm.	-	-	-	-
Length of flexiform profile: max 2400 mm. When Flexiform profiles are longer than 1 m, intermediate suspension are required.	-	-	-	-



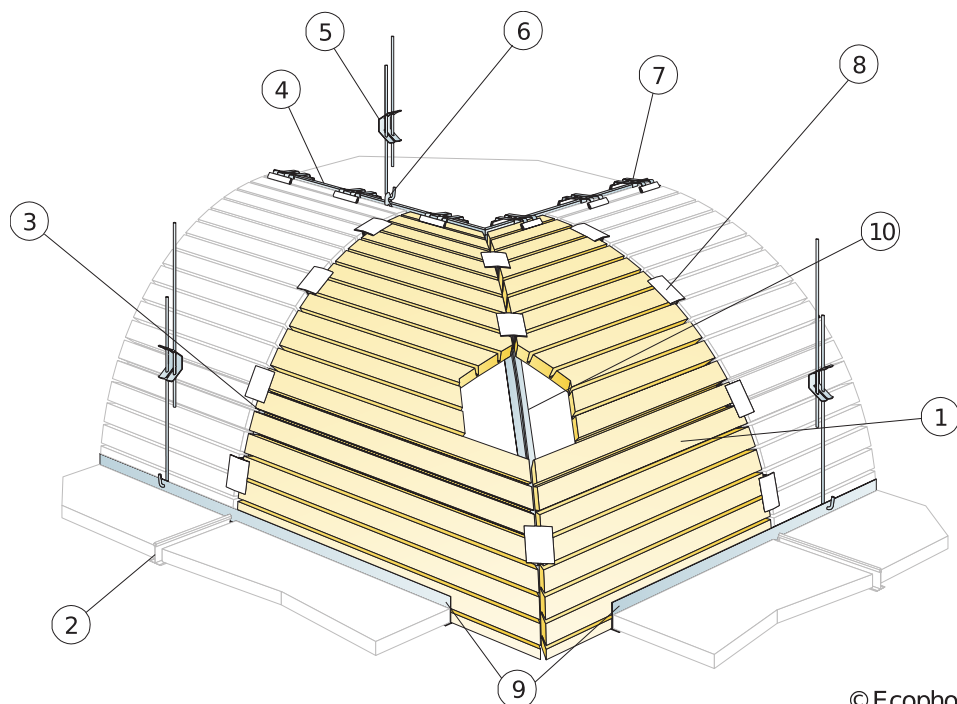
Profile for external corner

Size, mm	Max live load [N]	Min load bearing capacity [N]
1200x600x30	0	160
1600x600x30	0	160
2000x600x30	0	160
2400x600x30	0	160

Live load/load bearing capacity



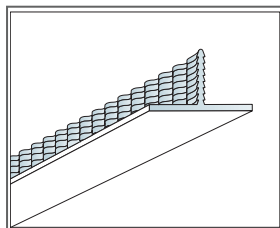
## INTERNAL CORNER (M311C) FOR ECOPHON FOCUS FLEXIFORM A



© Ecophon Group

## QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm			
	1200x600	1600x600	2000x600	2400x600
1 Focus Flexiform A	as required	as required	as required	as required
2 Connect T24 Cross tee [adjacent ceiling]	as required	as required	as required	as required
3 Connect Flexiform profile/Flexible Flexiform profile, installed at 600 mm centres. Radius of curve (concave or convex) min 200 mm. Length of profile: max 2400 mm. When Flexiform profiles are longer than 1 m, intermediate suspension are required.	as required	as required	as required	as required
4 Connect T24 Main runner	1,8m/m <sup>2</sup>	-	-	-
5 Connect Adjustable hanger, installed at 1200 mm centres	as required	as required	as required	as required
6 Connect Hanger clip	as required	as required	as required	as required
7 Connect Clip 100/20	as required	as required	as required	as required
8 Connect Flexiform clip, fixed at 100-300 mm depending on the radius of curve	as required	as required	as required	as required
9 Connect F-trim	as required	as required	as required	as required
10 Connect Flexiform profile/Flexible Flexiform profile, installed at 600 mm centres. Radius of curve (concave or convex) min 200 mm. Length of profile: max 2400 mm. When Flexiform profiles are longer than 1 m, intermediate suspension are required.	as required	as required	as required	as required
Flexiform profile: Radius of curve (concave or convex) min 200 mm.	-	-	-	-
Length of flexiform profile: max 2400 mm. When Flexiform profiles are longer than 1 m, intermediate suspension are required.	-	-	-	-



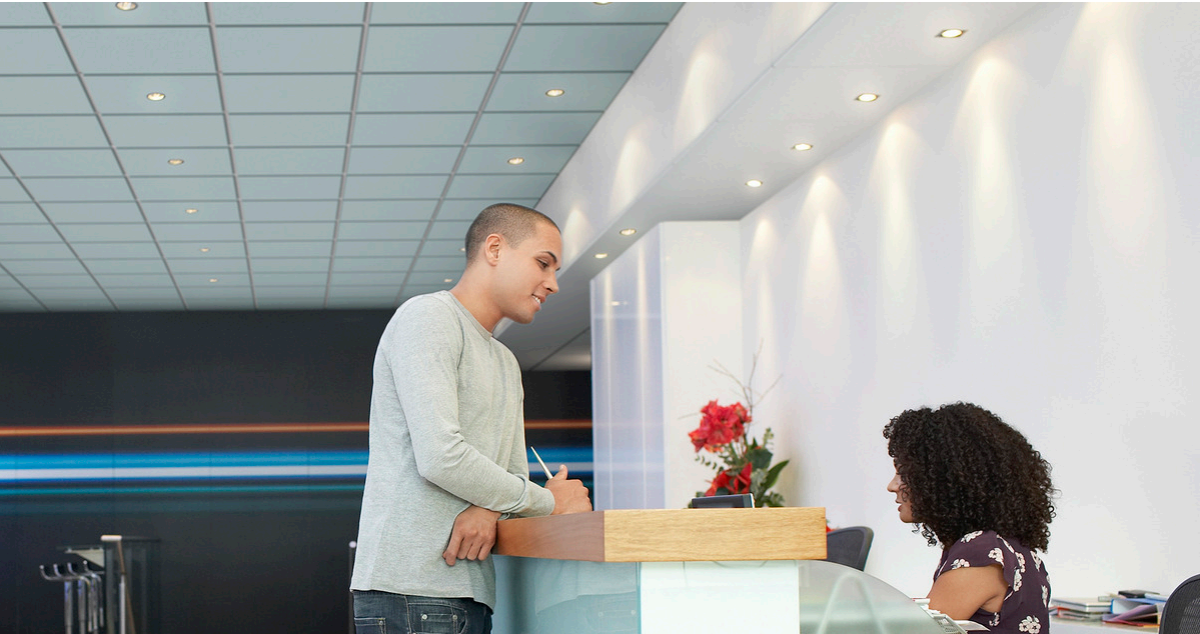
Profile for internal corner

Size, mm	Max live load [N]	Min load bearing capacity [N]
1200x600x30	0	160
1600x600x30	0	160
2000x600x30	0	160
2400x600x30	0	160

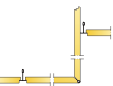
Live load/load bearing capacity

# Ecophon Focus™ Fixiform E

Ecophon Focus™ Fixiform E creates distinct transitions between different levels of ceiling to accommodate various ceiling service installations or to add shape and structure to the room. Tiles are delivered flat and folded to 90 degrees on site before installation.



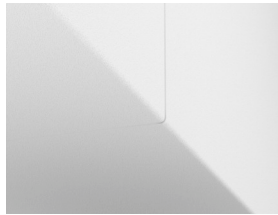
## SYSTEM RANGE



Size, mm	1200x600
T24	•
Thickness	20
Inst. Diag.	M276



Focus Fixiform panel



Detail of Focus Fixiform system fold



Focus Fixiform E system



Focus Fixiform E system upper level

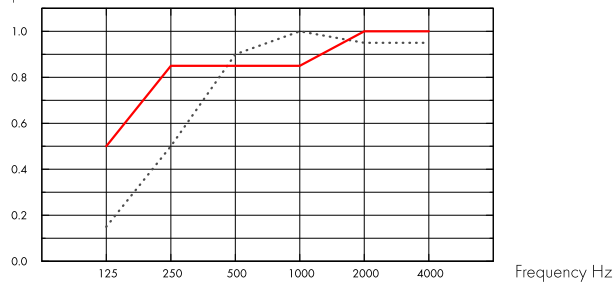


## Acoustic

### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

$\alpha_p$ , Practical sound absorption coefficient



.... Focus Fixiform E 20 mm, 60 mm o.d.s.

— Focus Fixiform E 20 mm, 200 mm o.d.s.

o.d.s = overall depth of system

THK mm	o.d.s. mm	$\alpha_p$ , Practical sound absorption coefficient						$\alpha_w$	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
20	60	0.15	0.50	0.90	1.00	0.95	0.95	0.80	B
20	200	0.50	0.85	0.85	0.85	1.00	1.00	0.90	A

THK mm	$D_{nfw}$		CAC dB	
	Weighted normalized flanking level difference, ISO 10848-2		Ceiling Attenuation Class, ASTM 1414, ASTM E413	
20	24		25	



## Indoor Air Quality

Certificate / Label	
Eurofins Indoor Air Comfort®	IAC Gold
French VOC	A+



## Circularity

Minimum post-consumer recycled content	57%
Recyclability	Fully recyclable



## Fire safety

Country	Fire standard	Class
Europe	EN 13501-1	A2-s1,d0

The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.



### Humidity Resistance

Class A, relative humidity 70% and 25°C, according to EN 13964:2014



### Visual appearance

White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.



### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



### Accessibility

The panels are demountable via adjacent flat ceiling tiles.



### System weight

	kg/m <sup>2</sup>
Focus Fixiform E	2,4
Focus Fixiform E + Connect grid system	3,3

Weight information is indicative and subject to variation.



### Installation

Installed according to installation diagrams, installation guides and drawing aid. Focus Fixiform E is supplied with all necessary installation accessories.



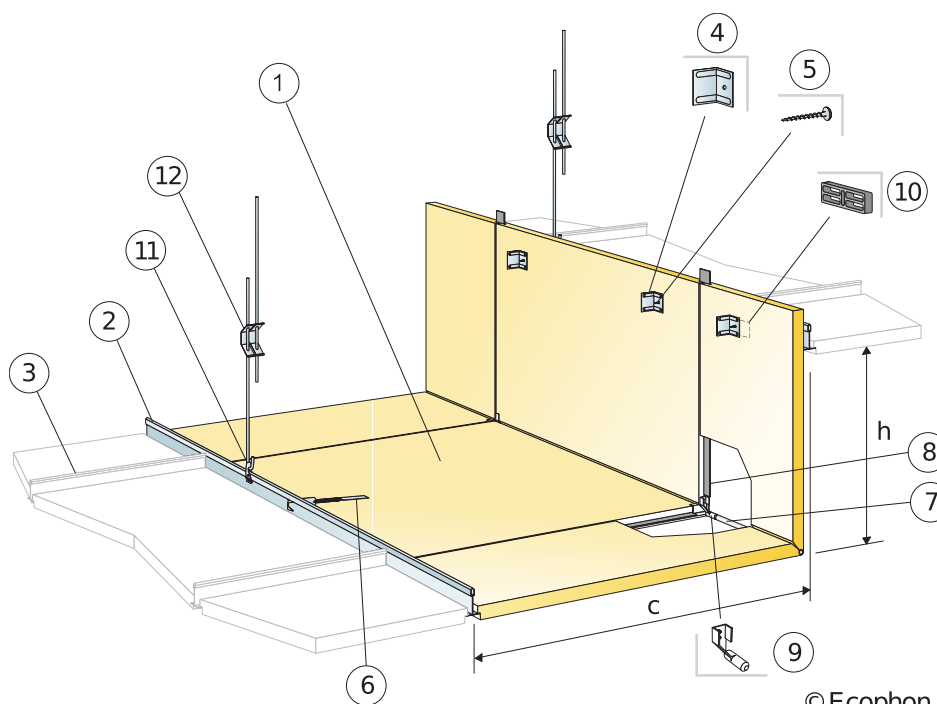
### Mechanical properties

Additional live load has to be fixed to the soffit.



### CE

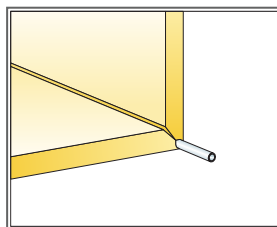
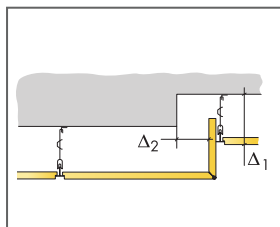
Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.



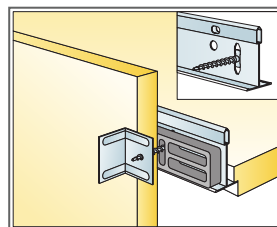
© Ecophon Group

## QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		1200x600
1	Focus Fixiform E (kit)	as required
2	Connect T24 Main runner	1,8m/m <sup>2</sup>
3	Connect T24 Cross tee (adjacent ceiling)	as required
4	Angle Bracket Fixiform (included in Fixiform kit)	-
5	Absorber screw metal 50 (included in Fixiform kit)	-
6	Connect Hook (included in Fixiform kit)	-
7	Reinforcement rod (included in Fixiform kit)	-
8	Connect F Spline (included in Fixiform kit)	-
9	Plug for reinforcement rod (included in Fixiform kit)	-
10	Distance (included in Fixiform kit)	-
11	Connect Hanger clip	1 pcs/hanger
12	Connect Adjustable hanger, installed at 600 mm centres at the level change	1,4/m <sup>2</sup>
$\Delta$ Min. overall depth of system: $\Delta 1=160$ mm and $\Delta 2=80$ mm from upper level		-
$\delta$ Min. demounting depth: Individual ceiling tiles are non-demountable		-
Dimension: c=600 mm, h<530 mm		-



The fold is reinforced by a rod



Upper level connection to Main runner

Size, mm	Max live load [N]	Min load bearing capacity [N]
1200x600x20	0	160

Live load/load bearing capacity

# Ecophon Focus™ Fixiform Ds

Ecophon Focus™ Fixiform Ds creates distinct transitions between different ceiling levels to accommodate various ceiling service installations or to offer shape and structure to a room. Tiles are delivered flat and folded to 90 degrees on site before installation.

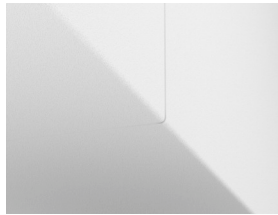


**SYSTEM RANGE**

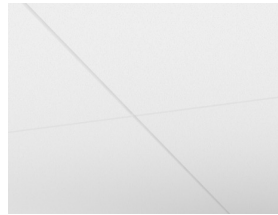
Size, mm	1200x600	XL 1500x600	XL 1900x600	XL 2300x600
T24	•	•	•	•
Thickness	20	20	20	20
Inst. Diag.	M619	M620	M620	M620



Focus Fixiform panel



Detail of Focus Fixiform system fold



Focus Fixiform Ds system



Focus Fixiform Ds system upper level

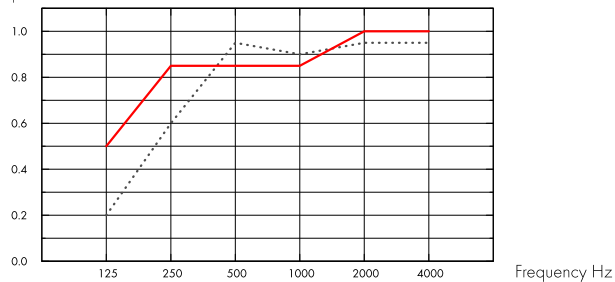
## Acoustic



### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654.

$\alpha_p$ , Practical sound absorption coefficient



.... Focus Fixiform Ds 20 mm, 75 mm o.d.s.

— Focus Fixiform Ds 20 mm, 200 mm o.d.s.

o.d.s = overall depth of system

THK mm	o.d.s. mm	$\alpha_p$ , Practical sound absorption coefficient						$\alpha_w$	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
20	75	0.20	0.60	0.95	0.90	0.95	0.95	0.90	A
20	200	0.50	0.85	0.85	0.85	1.00	1.00	0.90	A

THK mm	$D_{nfw}$				CAC dB	
	Weighted normalized flanking level difference, ISO 10848-2				Ceiling Attenuation Class, ASTM 1414, ASTM E413	
20	24				25	

## Indoor Air Quality



Certificate / Label	
Eurofins Indoor Air Comfort®	IAC Gold
French VOC	A+



## Circularity



Minimum post-consumer recycled content	54%
Recyclability	Fully recyclable

## Fire safety



Country	Fire standard	Class
Europe	EN 13501-1	A2-s1,d0

The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.



## Humidity Resistance

Class A, relative humidity 70% and 25°C, according to EN 13964:2014



## Visual appearance

White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.



## Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



## Accessibility

The panels are demountable via adjacent flat ceiling tiles.



## Installation

Installed according to installation diagrams, installation guides and drawing aid. Focus Fixiform Ds is supplied with all necessary installation accessories.



## System weight

	kg/m <sup>2</sup>	Weight information is indicative and subject to variation.
Focus Fixiform Ds	2,4	
Focus Fixiform Ds + Connect grid system	3,3	



## Mechanical properties

Additional live load has to be fixed to the soffit.

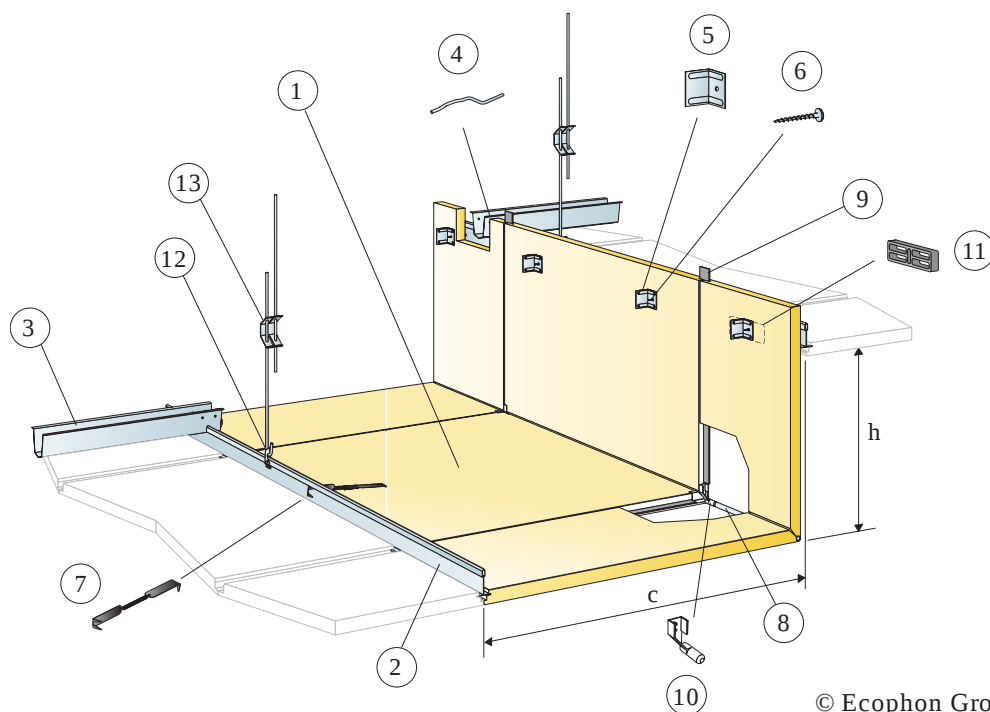


## CE

Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.



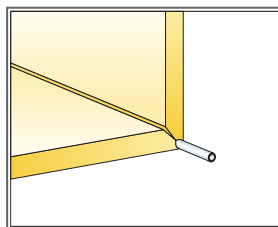
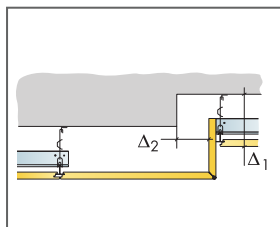
## INSTALLATION DIAGRAM (M619) FOR ECOPHON FOCUS FIXIFORM DS. SUSPENDED INSTALLATION



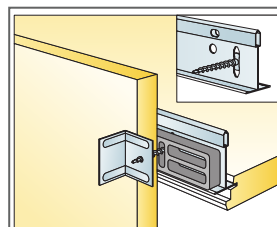
© Ecophon Group

## QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		1200x600
1	Focus Fixiform Ds (kit)	as required
2	Connect T24 Main runner PL	as required
3	Connect Space bar, installed at 1500 mm centres (max. distance from wall 300 mm)	as required
4	Connect Space bar winch, installed one per joint Main runner/Space bar	as required
5	Angle Bracket Fixiform (included in Fixiform kit)	-
6	Absorber screw metal 50 (included in Fixiform kit)	-
7	Connect Hook (included in Fixiform kit)	-
8	Reinforcement rod (included)	-
9	Connect F Spline (included in Fixiform kit)	-
10	Plug for reinforcement rod (included)	-
11	Distance (included in Fixiform kit)	-
12	Connect Hanger clip	1 pcs/hanger
13	Connect Adjustable hanger, installed at 600 mm centres at the level change	1,4/m <sup>2</sup>
Δ Min. overall depth of system: 150 mm from upper level		-
δ Min. demounting depth: Individual ceiling tiles are non-demountable		-
Dimension: c=600 mm, h<530 mm		-



The fold is reinforced by a rod

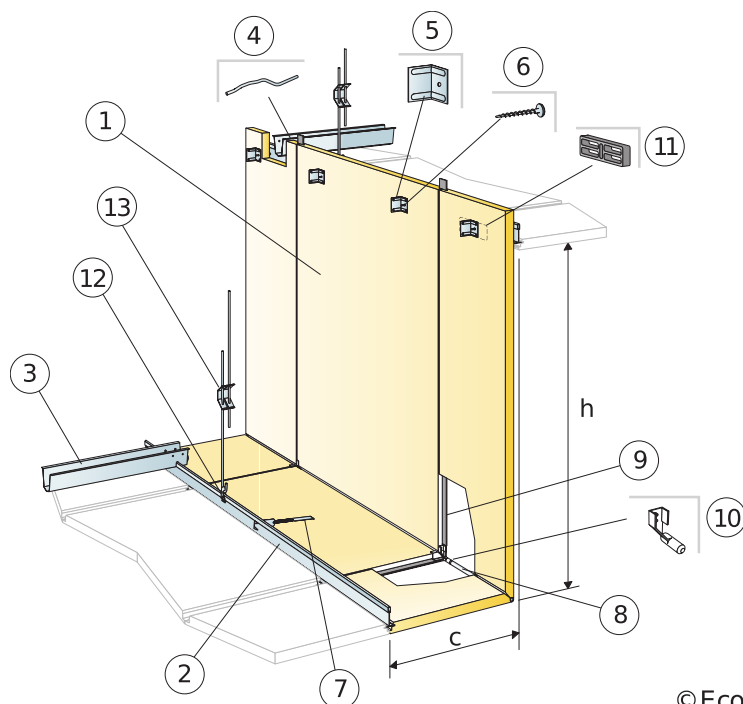


Upper level connection to Main runner

Size, mm	Max live load [N]	Min load bearing capacity [N]
1200x600x20	0	160

Live load/load bearing capacity

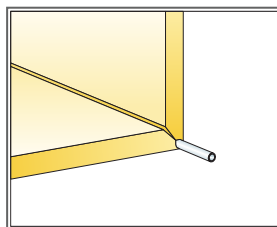
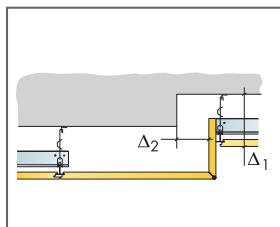
## INSTALLATION DIAGRAM (M620) FOR ECOPHON FOCUS FIXIFORM DS XL. SUSPENDED INSTALLATION



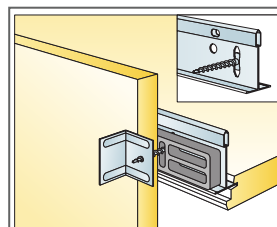
© Ecophon Group

## QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm		
	1500x600	1900x600	2300x600
1 Focus Fixiform Ds XL (kit)	as required	as required	as required
2 Connect T24 Main runner PL	as required	as required	as required
3 Connect Space bar, installed at 1500 mm centres (max. distance from wall 300 mm)	as required	as required	as required
4 Connect Space bar winch, installed one per joint Main runner/Space bar	as required	as required	as required
5 Angle Bracket Fixiform (included in Fixiform kit)	-	-	-
6 Absorber screw metal 50 (included in Fixiform kit)	-	-	-
7 Connect Hook (included in Fixiform kit)	-	-	-
8 Reinforcement rod (included in Fixiform kit)	-	-	-
9 Connect F Spline (included in Fixiform kit)	-	-	-
10 Plug for reinforcement rod (included in Fixiform kit)	-	-	-
11 Distance (included in Fixiform kit)	-	-	-
12 Connect Hanger clip	1pcs/hanger	1pcs/hanger	1pcs/hanger
13 Connect Adjustable hanger, installed at 600 mm centres at the level change	1,4/m <sup>2</sup>	1,4/m <sup>2</sup>	1,4/m <sup>2</sup>
Δ Min. overall depth of system: 150 mm from upper level	-	-	-
δ Min. demounting depth: Individual ceiling tiles are non-demountable	-	-	-
Dimension: c=300 mm, h<1130 mm (XL 1500), h<1530 mm (XL 1900), h<1930 mm (XL 2300)	-	-	-



The fold is reinforced by a rod



Upper level connection to Main runner

Size, mm	Max live load [N]	Min load bearing capacity [N]
1500x600x20	0	160
1900x600x20	0	160
2300x600x20	0	160

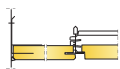
Live load/load bearing capacity

# Ecophon Focus™ Frieze

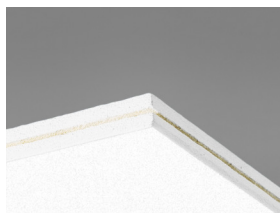
Ecophon Focus™ Frieze is available for edge Dg, Ds, A and E. The frieze can be connected to the wall without any visible trims. For applications where a smooth continuous transition between ceiling and wall is needed.



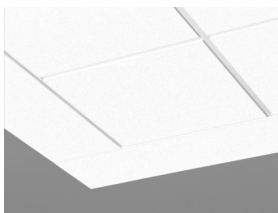
## SYSTEM RANGE



Size, mm	2400x600
T24	•
Thickness	20
Inst. Diag.	M110, M239



Focus frieze panel



Focus frieze system

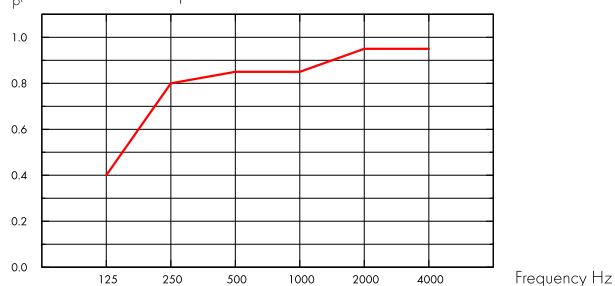


## Acoustic

### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

$\alpha_p$ , Practical sound absorption coefficient



— Focus Frieze 20 mm, 200 mm o.d.s.

o.d.s = overall depth of system

THK mm	o.d.s. mm	$\alpha_p$ , Practical sound absorption coefficient						$\alpha_w$	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
20	200	0.40	0.80	0.85	0.85	0.95	0.95	0.90	A

THK mm	AC(1.5)	$D_{nfw}$	CAC dB
	Articulation Class, ASTM E1111, ASTM E1110	Weighted normalized flanking level difference, ISO 10848-2	Ceiling Attenuation Class, ASTM 1414, ASTM E413
20	190	24	25



## Cradle to Cradle Certified®



This product is Cradle to Cradle Certified® at Bronze level (version 4.0).



## Material Health

This product has received a C2C Certified Material Health Certificate™ at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate™ is a verification of the health and safety of a product's composition using the Material Health requirements of the Cradle-to-Cradle Certified Product Standard.



## Circularity

Minimum post-consumer recycled content	59%
Recyclability	Fully recyclable



### Fire safety

Country	Fire standard	Class
Europe	EN 13501-1	A2-s1,d0

The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.



### Humidity Resistance

Class A, relative humidity 70% and 25°C, according to EN 13964:2014



### Humidity Resistance

Class C, relative humidity 95% and 30°C, according to EN 13964:2014



### Visual appearance

White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.



### Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



### Accessibility

The tiles are non-demountable.



### Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.



### System weight

	kg/m <sup>2</sup>
Focus Frieze	2,3
Focus Frieze + Connect grid system	3,3

Weight information is indicative and subject to variation.



### Mechanical properties

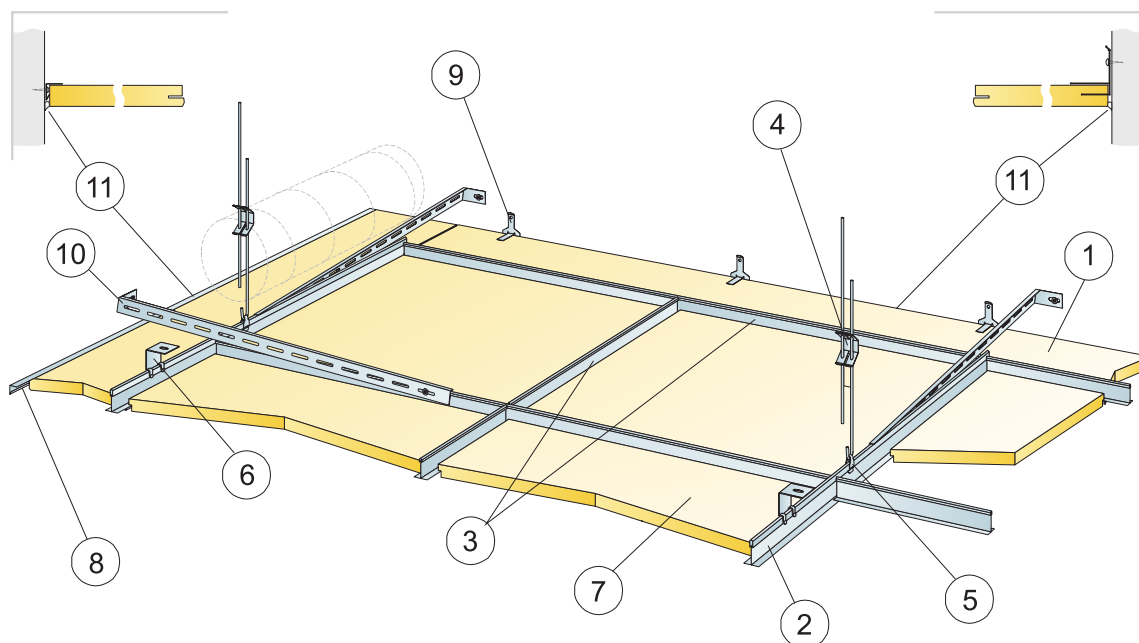
See table about Max live load and Min load bearing capacity and Functional demands, Mechanical properties at [www.ecophon.com](http://www.ecophon.com).



### CE

Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

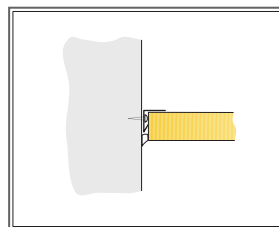
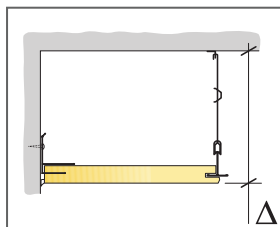
## INSTALLATION DIAGRAM (M110) FOR ECOPHON FOCUS FRIEZE A/E



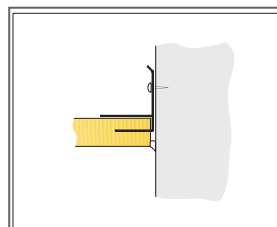
© Ecophon Group

## QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm
	<b>2400x600</b>
1 Focus Frieze	as required
2 Connect T24 Main runner	-
3 Connect T24 Cross tee	as required
4 Connect Adjustable hanger, installed at 1200 mm centres	as required
5 Connect Hanger clip for M110	as required
6 Connect Direct bracket (only in combination with Frieze trim)	as required
7 Focus A or E	as required
8 Connect Frieze trim 0562, fixed at 300 mm centres. If this solution is used on two opposite walls, the inner part of the ceiling needs to be stabilized towards the walls. Minimum free depth above tile 0 mm.	as required
9 Connect Frieze bracket 0043, installed at 500 mm centre. Minimum free depth above tile 150 mm.	as required
10 Connect Wall bracket, L=700 mm, for space bar	as required
11 Acrylic sealant, (not supplied by Ecophon)	as required
Δ Min. overall depth of system: with Adjustable hanger: 110 mm, with Direct bracket: 60 mm	
δ Min. demounting depth: The system is non-demountable	
Focus Frieze: Min. overall depth of system: 160 mm	
Focus Frieze: Min. demounting depth: The system is non-demountable	
Ecophon Focus frieze: can be divided in two parts if width is less than 300 mm	



Fixing with frieze trim

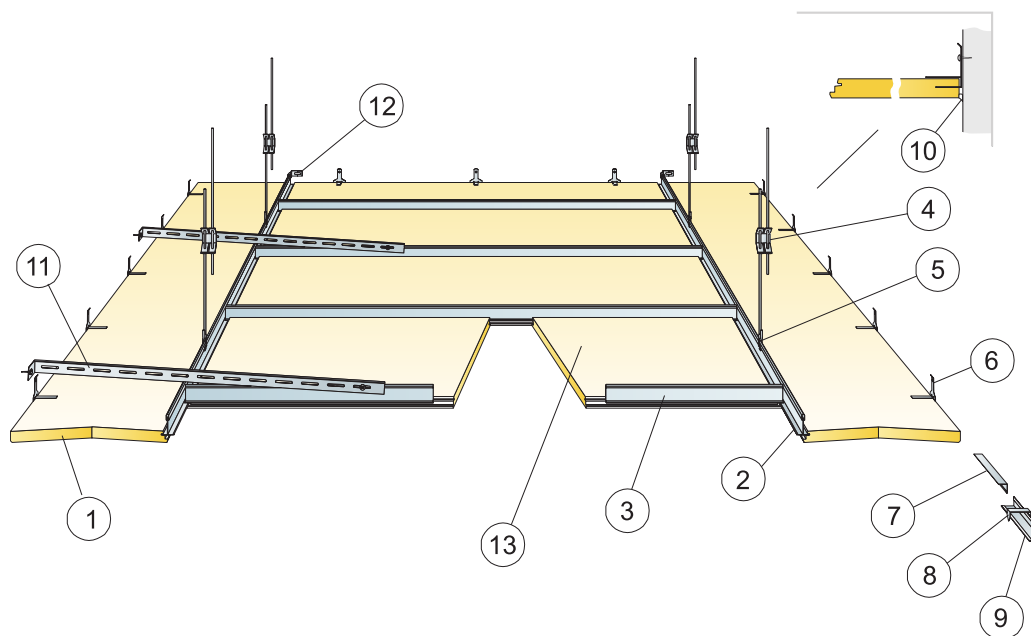


Fixing with frieze bracket

Size, mm	Max live load [N]	Min load bearing capacity [N]
2400x600x20	0	160

Live load/load bearing capacity

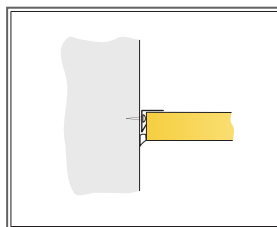
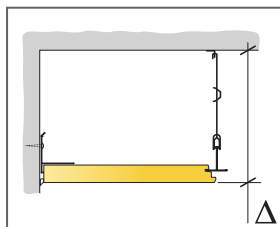
## INSTALLATION DIAGRAM (M239) FOR ECOPHON FOCUS FRIEZE DS/DG



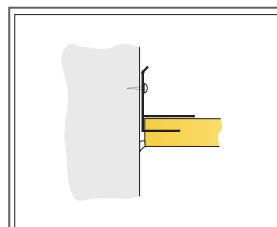
© Ecophon Group

## QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		2400x600
1	Focus frieze (can be divided in two parts if width is less than 300 mm)	as required
2	Connect T24 Main runner	-
3	Connect T24 Cross Tee L=600/1200/1800 alt. Main runner	as required
4	Connect Adjustable hanger, installed at 1200 mm centres	as required
5	Connect Hanger clip	as required
6	Connect Frieze bracket 0043, installed at 500 mm centre. Minimum free depth above tile 150 mm.	as required
7	Connect Frieze trim 0562, fixed at 300 mm centres.	as required
8	Connect Perimeter tile clip	1/300-400mm on any cut edge
9	Connect Angle trim	as required
10	Acrylic sealant, (not supplied by Ecophon)	as required
11	Connect Wall bracket, L=700 mm, for space bar	as required
12	Connect Wall bracket T-profile	as required
13	Focus Ds or Dg	as required
Δ Min. overall depth of system: 110 mm		-
δ Min. demounting depth: Focus frieze tiles are non-demountable, center part according to each system		-
Ecophon Focus frieze: can be divided in two parts if width is less than 300 mm		-



Fixing with frieze trim



Fixing with frieze bracket

Size, mm	Max live load [N]	Min load bearing capacity [N]
2400x600x20	0	160

Live load/load bearing capacity

# Ecophon Focus Edge™ 500

Ecophon Focus Edge™ 500 is a system used as free hanging unit(s) in applications where the installation of a wall-to-wall ceiling is not possible. The system consists of profiles and corners which together form a well designed perimeter trim.



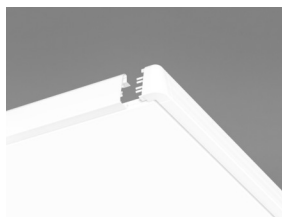
Piet Hein Building, Netherlands

## SYSTEM RANGE



Size, mm	600x600	1200x600	1200x1200	1200x1200
T24	•	•	•	•
Thickness	20	20	20	25
Inst. Diag.	M165, M210, M211	M165, M210, M211	M165, M210	M211





Ecophon Edge 500 in position for Focus E installation



### Acoustic

Ecophon Focus Edge 500 is a perimeter component. For acoustic data on the system - please see corresponding ceiling system (Focus Ds, Focus Dg or Focus/Master E).



### Circularity

Fully recyclable.



### Fire safety

Country	Class
Europe	EN 13501-1 A1



### Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.



### Mechanical properties

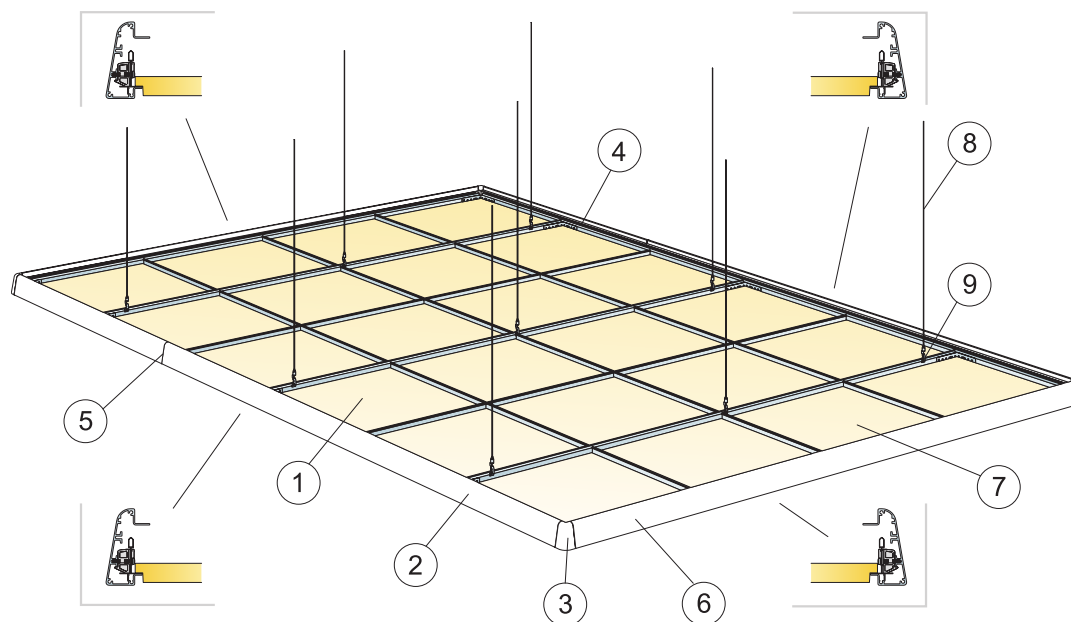
Additional live load has to be fixed to the soffit.



### CE

Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

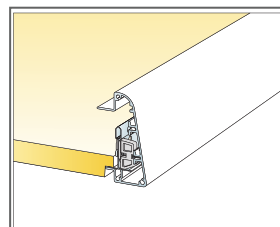
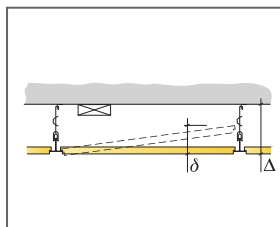
## INSTALLATION DIAGRAM (M165) FOR ECOPHON EDGE 500 WITH FOCUS E T24



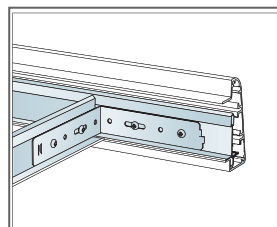
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## QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm		
	600x600	1200x600	1200x1200
1 Focus E	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>	0,7/m <sup>2</sup>
2 Connect Edge 500 Profile	as required	as required	as required
3 Connect Edge Corner 1060	as required	as required	as required
4 Connect L-coupling	as required	as required	as required
5 Joint with Guide pins and Joint fixing bracket, (see Edge kit for further details)	as required	as required	as required
6 Connect Edge profile clip E, (18 pcs/kit included in Connect Edge kit E)	as required	as required	as required
7 Focus E tile and Connect grid	as required	as required	as required
8 Connect Adjustable wire hanger, installed at 1200 mm centres	as required	as required	as required
9 Connect Hanger clip	as required	as required	as required
Connect Edge kit E: 18 Connect Edge profile clip with screw RTK 3,5x19, 4 Joint fixing bracket, 1 socket screw wrench 2 mm, 1 socket screw as required wrench T10, 12 guide pins, 24 screws RTK ST 3,5x9,5 (for fixing to extrusion), 1 installation guide			
Not included in kit: Connect L-coupling 1040	-	-	-
Not included in kit: Connect Installation screw BR 4025 for L-coupling	-	-	-
Δ Min. overall depth of system: 130 mm	-	-	-
δ Min. demounting depth: See Focus/Master E	-	-	-



Joint between tile and Edge profile

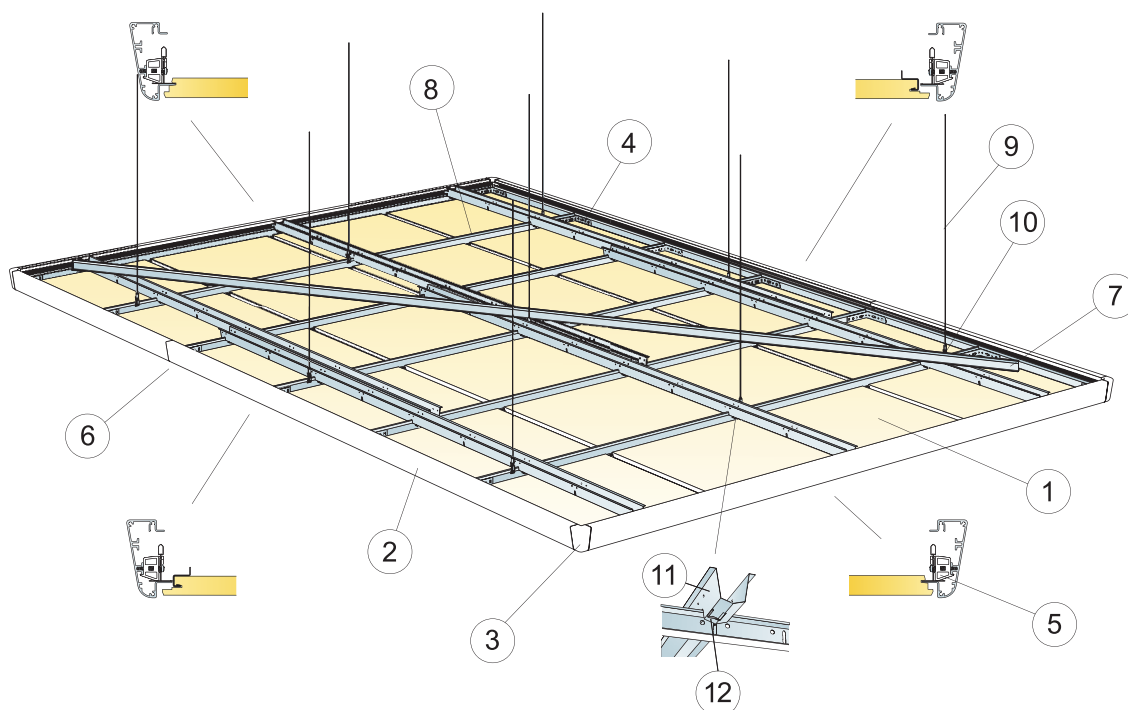


Connection between T-profile and Edge extrusion

Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x20	50	160
1200x600x20	50	160
1200x1200x20	50	160

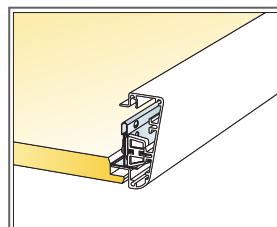
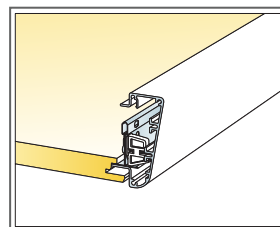
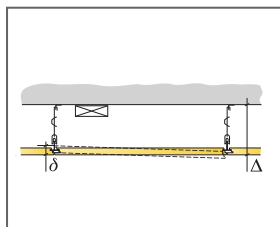
Live load/load bearing capacity

## INSTALLATION DIAGRAM (M210) FOR ECOPHON EDGE 500 WITH FOCUS DS



## QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm		
	600x600	1200x600	1200x1200
1 Focus Ds	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>	0,7/m <sup>2</sup>
2 Connect Edge 500 Profile	as required	as required	as required
3 Connect Edge 500 Corner	as required	as required	as required
4 Connect L-coupling	as required	as required	as required
5 Connect Edge profile clip, (18 pcs/kit included in Connect Edge kit Ds/Dg)	as required	as required	as required
6 Joint with Guide pins and Joint fixing bracket, (see Edge kit for further details)	as required	as required	as required
7 Connect Main runner for adjustment and stabilisation of grid	as required	as required	as required
8 Focus Ds tile and Connect grid system (see Focus Ds system page for further details)	as required	as required	as required
9 Connect Adjustable wire hanger, installed at 1200 mm centres	as required	as required	as required
10 Connect Hanger clip	as required	as required	as required
11 Connect Space bar	as required	as required	as required
12 Connect Space Bar Winch, installed one per joint Connect Main Runner/Connect Space Bar	1,4/m <sup>2</sup>	1,4/m <sup>2</sup>	0,7/m <sup>2</sup>
Connect Edge Kit Ds/Dg: 18 Connect Edge profile clip with screw RTK 3,5x25, 4 Joint fixing bracket, 1 socket screw wrench 2 mm, 1 socket screw wrench T10, 12 guide pins, 24 screws RTK ST 3,5x7 (for fixing to extrusion), 1 installation guides	as required	as required	as required
Not included in kit: Connect L-coupling 1040	-	-	-
Not included in kit: Connect Installation screw BR 4025 for L-coupling	-	-	-
Δ Min. overall depth of system: 135 mm	-	-	-
δ Min. demounting depth: 30 mm (50 mm with 1200x1200)	-	-	-



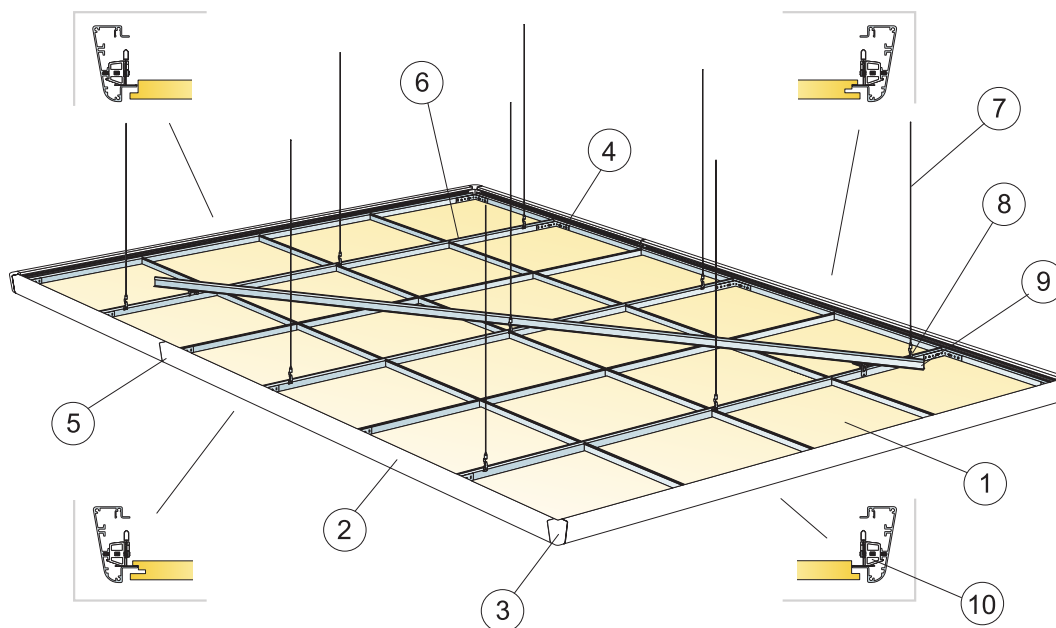
Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x20	50	160
1200x600x20	50	160
1200x1200x20	50	160

Joint with tile side Ds1

Joint with tile side Ds2 and extra profile

Live load/load bearing capacity

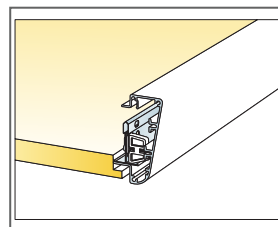
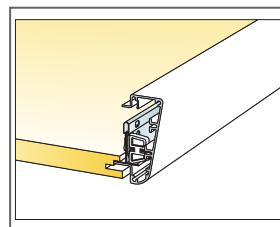
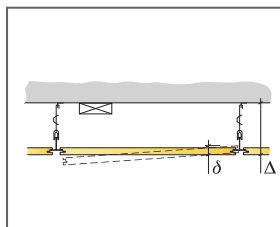
## INSTALLATION DIAGRAM (M211) FOR ECOPHON EDGE 500 WITH FOCUS DG



© Saint-Gobain Ecophon AB

## QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm		
	600x600	1200x600	1200x1200
1 Focus Dg	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>	0,7/m <sup>2</sup>
2 Connect Edge 500 Profile	as required	as required	as required
3 Connect Edge 500 Corner	as required	as required	as required
4 Connect L-coupling	as required	as required	as required
5 Joint with Guide pins and Joint fixing bracket, (see Edge kit for further details)	as required	as required	as required
6 Focus Dg tile and Connect grid system (see Focus Dg system page for further details)	as required	as required	as required
7 Connect Adjustable wire hanger, installed at 1200 mm centres	as required	as required	as required
8 Connect Hanger clip	as required	as required	as required
9 Connect Main runner for adjustment and stabilisation of grid	as required	as required	as required
10 Connect Edge profile clip, (18 pcs/kit included in Connect Edge kit Ds/Dg)	as required	as required	as required
Connect Edge Kit Ds/Dg: 18 Connect Edge profile clip with screw RTK 3,5x25, 4 Joint fixing bracket, 1 socket screw wrench 2 mm, 1 socket screw wrench T10, 12 guide pins, 24 screws RTK ST 3,5x7 (for fixing to extrusion), 1 installation guides	as required	as required	as required
Not included in kit: Connect L-coupling 1040	-	-	-
Not included in kit: Connect Installation screw BR 4025 for L-coupling	-	-	-
Δ Min. overall depth of system: 135 mm	-	-	-
δ Min. demounting depth: 30 mm (50 mm with 1200x1200)	-	-	-



Size, mm	Max live load (N)	Min load bearing capacity (N)
600x600x20	50	160
1200x600x20	50	160
1200x1200x25	50	160

Joint between tile and Edge profile

Connection between T-profile and Edge extrusion

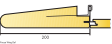
Live load/load bearing capacity

# Ecophon Focus™ Wing

Ecophon Focus™ Wing installs as the perimeter of a floating ceiling when used together with Ecophon Focus™ Ds or E. It is a system of wing shaped absorbers for free hanging suspended ceilings when a wall to wall ceiling is not preferred.

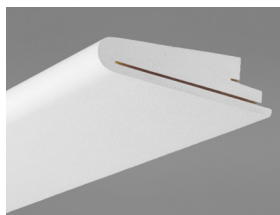


Seaham Contact Centre, Seaham, United Kingdom

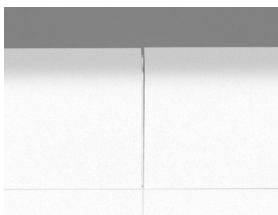


## SYSTEM RANGE

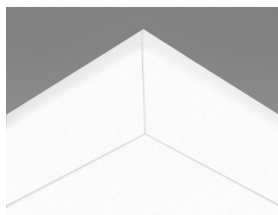
Size, mm	600x200	1200x200
T24	•	•
Thickness	50	50
Inst. Diag.	M209	M143, M209



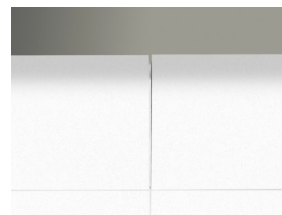
Focus Wing element



Joint between Focus Wing elements



Focus Wing external corner



Section of Focus Wing system with Connect T24

## Acoustic



Ecophon Focus Wing is a perimeter component. For acoustic data on the system - please see corresponding ceiling system (Focus Ds or Focus/Master E).

## Indoor Air Quality



Certificate / Label	
Eurofins Indoor Air Comfort®	IAC Gold
French VOC	A+



## Cradle to Cradle Certified®



This product is Cradle to Cradle Certified® at Bronze level (version 4.0).



## Material Health

This product has received a C2C Certified Material Health Certificate™ at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate™ is a verification of the health and safety of a product's composition using the Material Health requirements of the Cradle-to-Cradle Certified Product Standard.



## Circularity

Minimum post-consumer recycled content	61%
Recyclability	Fully recyclable



## Fire safety

Country	Fire standard	Class
Europe	EN 13501-1	A2-s1,d0

The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.



## Humidity Resistance

Class C, relative humidity 95% and 30°C, according to EN 13964:2014



## Visual appearance

White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.



## Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



## Accessibility

The tiles are non-demountable.



## Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification.



## System weight

	kg/m <sup>2</sup>
Focus Wing	5,4
Focus Wing + Connect grid system	6,3

Weight information is indicative and subject to variation.



## Mechanical properties

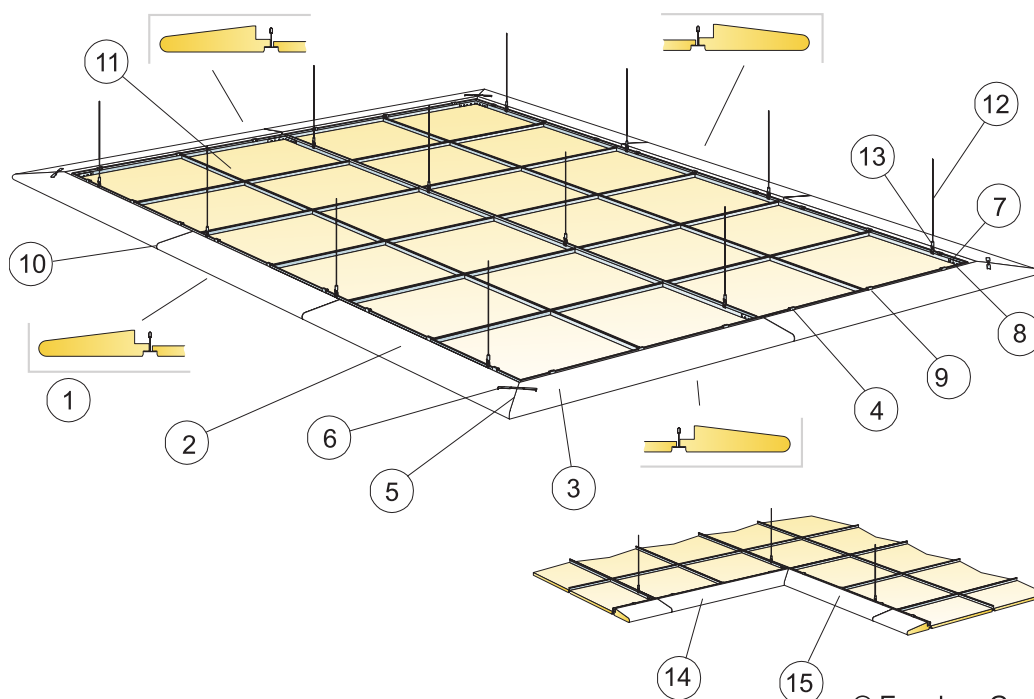
No additional live load is allowed.



## CE

Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

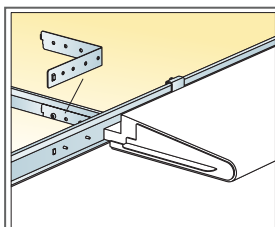
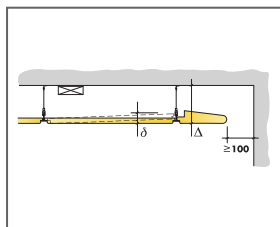
## INSTALLATION DIAGRAM (M143) FOR ECOPHON FOCUS WING E



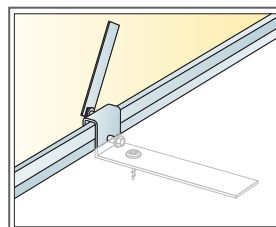
© Ecophon Group

## QUANTITY SPECIFICATION (EXCL. WASTAGE)

		Size, mm
		1200x200
1	Focus Wing E (Straight Kit E, see installation guide)	as required
2	Focus Wing E/external corner right (incl. in external corner kit, see installation guide)	as required
3	Focus Wing E/external corner left (incl. in external corner kit, see installation guide)	as required
4	Connect Wing Cantilever (incl. In kits)	as required
5	Connect Spline (incl. in kit)	as required
6	Connect Hook (incl. in kit)	as required
7	Connect L-coupling	as required
8	Connect Installation screw BR (2000 pcs)	as required
9	Connect Installation Screw MVL (included in kits)	as required
10	Connect Wing Distance	as required
11	Ecophon Focus/Master E system with a frame of Connect Main runner HD	as required
12	Connect Adjustable wire hanger, installed at 1200 mm centres	as required
13	Connect Hanger clip	as required
14	Focus Wing E/internal corner right (incl. in internal corner kit)	as required
15	Focus Wing E/internal corner left (incl. in internal corner kit)	as required
$\Delta$ Min. overall depth of system: 130 mm		-
$\delta$ Min. demounting depth: See Focus/Master E		-



Straight elements are fitted with a special accessory



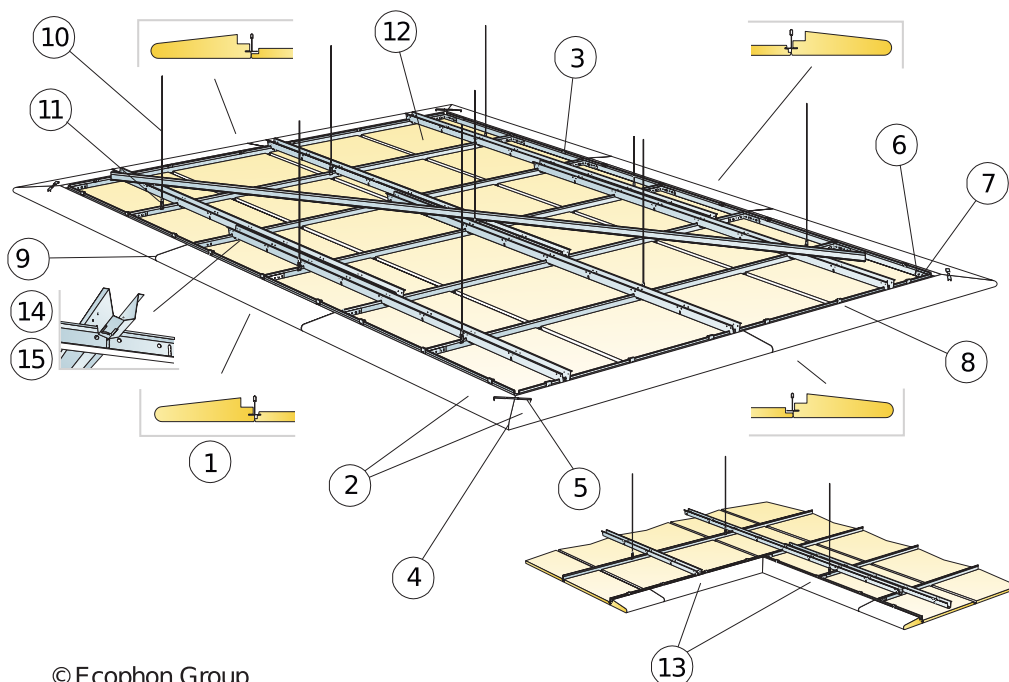
Adjustment of the element

Size, mm	Max live load [N]	Min load bearing capacity [N]
1200x200x50	0	160

Live load/load bearing capacity



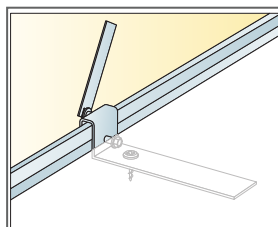
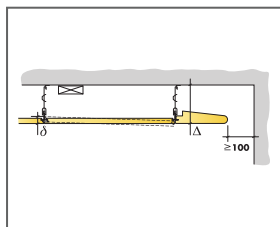
## INSTALLATION DIAGRAM (M209) FOR ECOPHON FOCUS WING DS



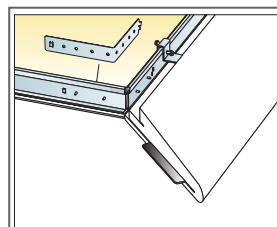
© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm	
	600x200	1200x200
1 Focus Wing Ds (Straight Kit Ds, see installation guide)	-	as required
2 Focus Wing Ds/external corner (incl. in external corner kit, see installation guide)	-	as required
3 Connect Wing Cantilever (incl. In kits)	-	as required
4 Connect Spline (incl. in kits)	-	as required
5 Connect Hook (incl. in kit)	-	as required
6 Connect L-coupling	-	as required
7 Connect Installation screw BR (2000 pcs)	-	as required
8 Connect Installation Screw MVL (included in kits)	-	as required
9 Connect Wing Distance	-	as required
10 Connect Adjustable wire hanger, installed at 1200 mm centres	-	as required
11 Connect Hanger clip	-	as required
12 Ecophon Focus Ds system with a frame of Connect Main runner HD 7101	-	as required
13 Focus Wing Ds/internal corner (see internal corner for details)	-	as required
14 Connect Space bar	-	-
15 Connect Space bar winch, installed one per joint Main runner/Space bar	-	-
Δ Min. overall depth of system: 135 mm	-	-
δ Min. demounting depth: 30 mm (50 mm with 1200x1200)	-	-



Adjustment of the element



Corner elements are fitted with a spline

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x200x50	-	-
1200x200x50	0	-

Live load/load bearing capacity

# Ecophon Focus™ Levels

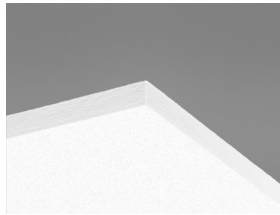
Ecophon Focus™ Levels is a creative system with different thicknesses, sizes and colours. The system is glued edge-to-edge directly to an existing soffit, ceiling or wall. Creates a unique design in levels and patterns.



## SYSTEM RANGE



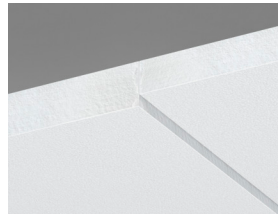
Size, mm	600x600	600x600	600x600	1200x300	1200x300	1200x300	1200x600	1200x600	1200x600
Direct	•	•	•	•	•	•	•	•	•
Thickness	20	30	40	20	30	40	20	30	40
Inst. Diag.	M488, M489	M488, M489	M488, M489	M488, M489	M488, M489	M488, M489	M488, M489	M488, M489	M488, M489



Focus Levels tile



Focus Levels system



Section of Focus Levels system

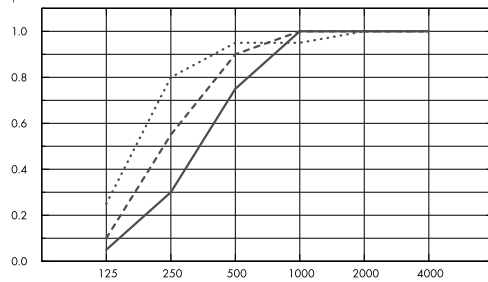


## Acoustic

### Sound Absorption:

Test results according to EN ISO 354. Classification according to EN ISO 11654, and the single value ratings for Noise Reduction Coefficient, NRC and Sound Absorption Average, SAA according to ASTM C 423.

$\alpha_p$ , Practical sound absorption coefficient



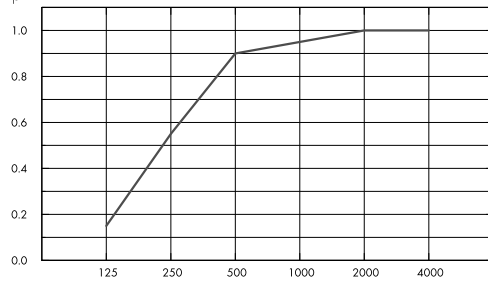
.... Focus Levels 40 mm, 43 mm o.d.s.

--- Focus Levels 30 mm, 33 mm o.d.s.

— Focus Levels 20 mm, 23 mm o.d.s.

o.d.s = overall depth of system

$\alpha_p$ , Practical sound absorption coefficient



— Focus Levels 20/30/40 mm (M488, M489), 23-43 mm o.d.s.

o.d.s = overall depth of system

THK mm	o.d.s. mm	$\alpha_p$ , Practical sound absorption coefficient						$\alpha_w$	Sound absorption class
		125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz		
40	43	0.25	0.80	0.95	0.95	1.00	1.00	1.00	A
30	33	0.10	0.55	0.90	1.00	1.00	1.00	0.85	B
20	23	0.05	0.30	0.75	1.00	1.00	1.00	0.60	C
0	43	0.15	0.55	0.90	0.95	1.00	1.00	0.85	B

THK mm	o.d.s. mm	NRC	SAA
30	33	0.85	0.86
20	23	0.75	0.78
0	43	0.85	0.85



## Indoor Air Quality

### Certificate / Label

Eurofins Indoor Air Comfort®

IAC Gold

French VOC

A+



## Cradle to Cradle Certified®



This product is Cradle to Cradle Certified® at Bronze level (version 4.0).



## Material Health

This product has received a C2C Certified Material Health Certificate™ at the Silver level (standard version 4.0). The C2C Certified Material Health Certificate™ is a verification of the health and safety of a product's composition using the Material Health requirements of the Cradle-to-Cradle Certified Product Standard.



## Carbon footprint

	kg CO <sub>2</sub> equiv/m <sup>2</sup>
Focus Levels 20mm	5,03
Focus Levels 30mm	6,23
Focus Levels 40mm	7,44

Life-cycle stages A1 to C4 from EPD, in conformity with ISO 14025 / EN 15804



## Circularity

Minimum post-consumer recycled content (20 mm)	58%
Minimum post-consumer recycled content (30 mm)	62%
Minimum post-consumer recycled content (40 mm)	64%
Recyclability	Fully recyclable



## Fire safety

Country	Fire standard	Class
Europe	EN 13501-1	A2-s1,d0

The glass wool core of the tiles is tested and classified as non-combustible according to EN ISO 1182.



## Humidity Resistance

Class C, relative humidity 95% and 30°C, according to EN 13964:2014



## Visual appearance

White Frost, nearest NCS colour sample S 0500-N, 85% light reflectance. Gloss < 1.



## Cleanability

Daily dusting and vacuum cleaning. Weekly wet wiping.



## Accessibility

The tiles are non-demountable.



## Installation

Installed according to installation diagrams, installation guides and drawing aid. For information regarding minimum overall depth of system see quantity specification. Rendered surfaces must have sufficient strength to be able to carry the load imposed by the tiles. If doubts, test gluing should be carried out. The surface should always be dry and clean. For best result the surface should be even, however an acceptable result could be achieved on slightly uneven surfaces.



## System weight

	kg/m <sup>2</sup>
Focus Levels 20 mm	2,4
Focus Levels 30 mm	3,4
Focus Levels 40 mm	4,4

Weight information is indicative and subject to variation.



## Mechanical properties

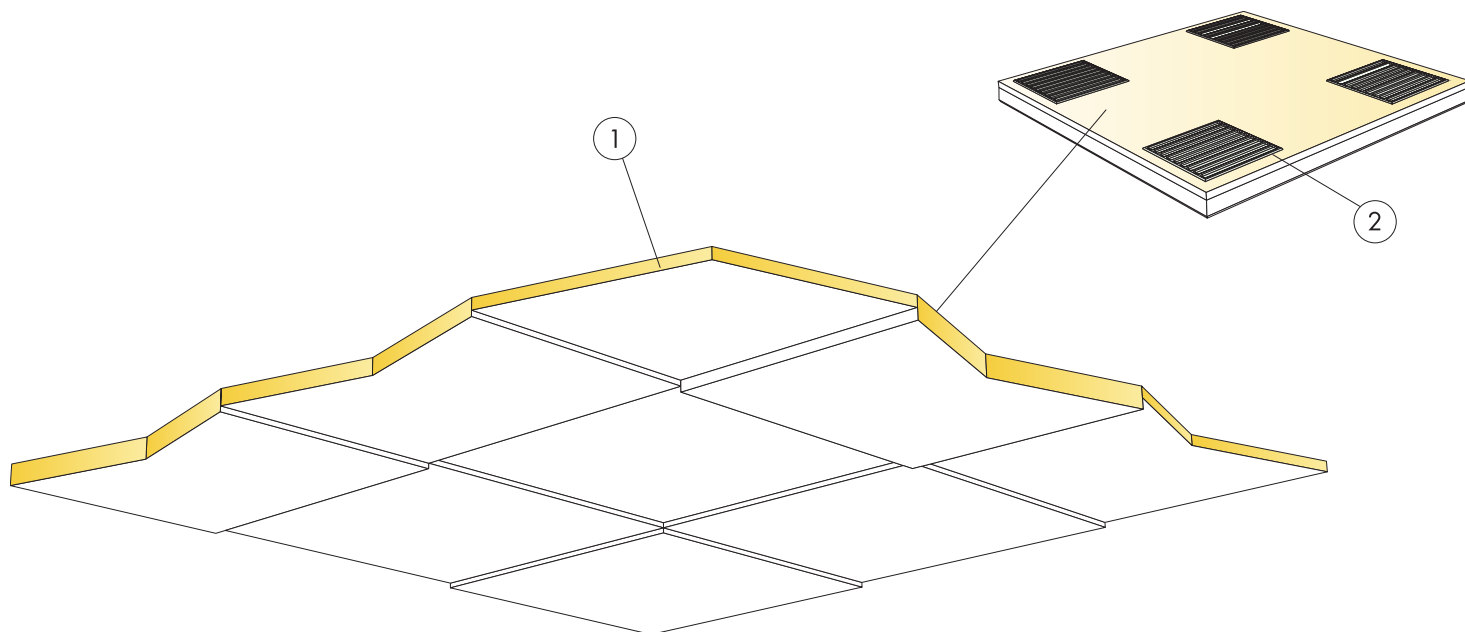
Additional live load has to be fixed to the soffit.



## CE

Ecophon ceiling systems are CE marked according to the European harmonized standard EN13964:2014. CE marked construction products are covered by a Declaration of Performance (DOP) which enables customers and users to easily compare performance of products available on the European market.

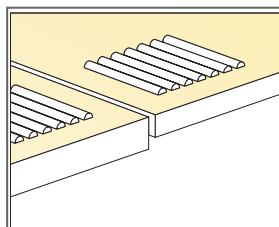
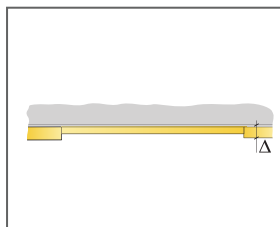
INSTALLATION DIAGRAM (M488) FOR ECOPHON FOCUS LEVELS, USING CONNECT ABSORBER GLUE



© Ecophon Group

QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm		
	600x600	1200x300	1200x600
1 Focus Levels	2,8/m <sup>2</sup>	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>
2 Connect Absorber glue [0,25 l/m <sup>2</sup> - 0,4 l/m <sup>2</sup> depending on installation conditions] (10 litres)	as required	as required	as required
Use Connect Notched spatula to apply the glue.	-	-	-
Δ Min. overall depth of system: 23 mm	-	-	-
δ Min. demounting depth: The system is non-demountable	-	-	-
Cut visible edges should be painted	-	-	-
Installation shows 30% of each thickness	-	-	-

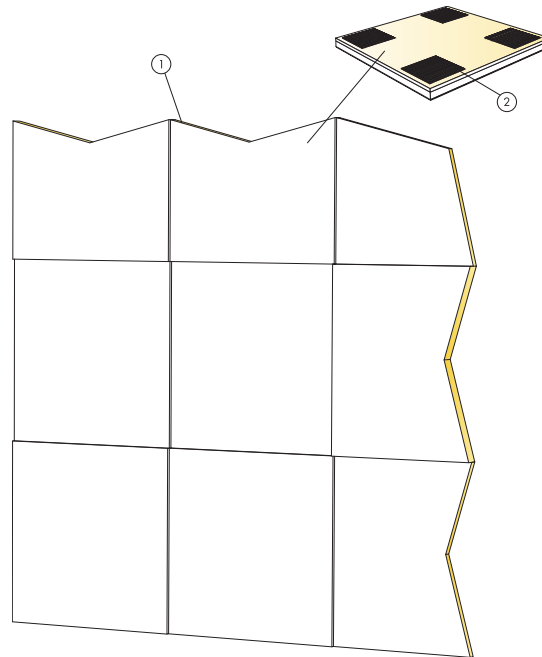


Application of glue

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600x20	-	-
600x600x30	-	-
600x600x40	-	-
1200x300x20	-	-
1200x300x30	-	-
1200x300x40	-	-

Live load/load bearing capacity

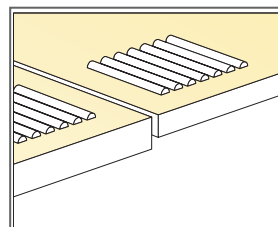
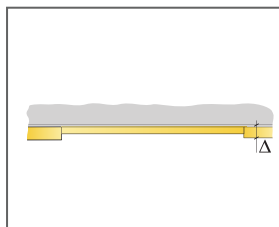
# INSTALLATION DIAGRAM (M489) FOR ECOPHON FOCUS LEVELS, USING CONNECT ABSORBER GLUE



© Ecophon Group

## QUANTITY SPECIFICATION (EXCL. WASTAGE)

	Size, mm		
	600x600	1200x300	1200x600
1 Focus Levels	2,8/m <sup>2</sup>	2,8/m <sup>2</sup>	1,4/m <sup>2</sup>
2 Connect Absorber glue [0,25 l/m <sup>2</sup> - 0,4 l/m <sup>2</sup> depending on installation conditions] (10 litres)	as required	as required	as required
Use Connect Notched spatula to apply the glue.	-	-	-
Δ Min. overall depth of system: 23 mm	-	-	-
δ Min. demounting depth: The system is non-demountable	-	-	-
Cut visible edges should be painted	-	-	-
Installation shows 30% of each thickness	-	-	-



Application of glue

Size, mm	Max live load [N]	Min load bearing capacity [N]
600x600x20	-	-
600x600x30	-	-
600x600x40	-	-
1200x300x20	-	-
1200x300x30	-	-
1200x300x40	-	-

Live load/load bearing capacity